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THE METHODIST ALMANAC

MEMORIAL HALL PHILA.

Engraved expressly for this Almanac.

1877

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Total Assets - - -	*$2,549,958 77*

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BEFORE

we have felt the want of them as they are afterward, the indiscretions which furnish them would be more generally avoided. As it is, when diseases are inflicted upon us as a penalty for defying or neglecting the laws of our organization,

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THE

Methodist Almanac

FOR THE YEAR OF OUR LORD

1877,

BEING THE 101st YEAR OF AMERICAN INDEPENDENCE,

AND THE

111th OF AMERICAN METHODISM.

EDITED BY W. H. DE PUY, D.D.

NEW YORK:
NELSON & PHILLIPS.
CINCINNATI:
HITCHCOCK & WALDEN.

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The Conscience and Future Judgment.

I SAT alone with my conscience
In a place where time had ceased,
And we talked of my former living
In the land where the years increased.
And I felt I should have to answer
The question it put to me,
And to face the answer and question
Throughout an eternity.
The ghosts of forgotten actions
Come floating before my sight,
And things that I thought were dead things
Were alive with a terrible might.
And the vision of all my past life
Was an awful thing to face,—
Alone with my conscience sitting
In that solemnly silent place.
And I thought of a far-away warning,
Of a sorrow that was to be mine,
In a land that then was the future,
But now is the present time.
And I thought of my former thinking
Of the judgment-day to be,
But sitting alone with my conscience
Seemed judgment enough for me,
And I wondered if there were a future
To this land beyond the grave;
But no one gave me answer,
And no one came to save.
Then I felt that the future was present,
And the present would never go by,
For it was but the thought of my past life
Grown into eternity.
Then I woke from my timely dreaming,
And the vision passed away,
And I knew the far-away warning
Was a warning of yesterday,—
And I pray that I may not forget it,
In this land before the grave,
That I may not cry in the future,
And no one come to save.
And so I have learned a lesson
Which I ought to have known before,
And which, though I learned it dreaming,
I hope to forget no more.
So I sit alone with my conscience
In the place where the years increase,
And I try to remember the future
In the land where time will cease.
And I know of the future judgment,
How dreadful soe'er it be,
That to sit alone with my conscience
Will be judgment enough for me.

Entered according to act of Congress, in the year 1876, by NELSON & PHILLIPS, in the Office of the Librarian of Congress at Washington.

THE

METHODIST ALMANAC

1877.

Constellations of the Zodiac, with the Time of the Sun's entering each.

Spring.	Summer.	Autumn.	Winter.
♓ *Pisces*, March 20.	♊ *Gemini*, June 21.	♎ *Virgo*, Sept. 23.	♐ *Sagittarius*, Dec. 22.
♈ *Aries*, April 20.	♋ *Cancer*, July 23.	♎ *Libra*, Oct. 23.	♑ *Capricornus*, Jan. 20.
♉ *Taurus*, May 21.	♌ *Leo*, August 23.	♏ *Scorpio*, Nov. 22.	♒ *Aquarius*, Feb. 18.
SPRING, 92d. 20h. 6m.	SUMMER, 93d. 14h. 30m.	AUTUMN, 89d. 18h. 2m.	WINTER, 89d. 1h. 18m.

Eclipses.*

THERE will be five Eclipses this year, as follows:—

I. A Total Eclipse of the Moon, February 27. Invisible in North America.

II. A Partial Eclipse of the Sun, March 14. Invisible in America.

III. A Partial Eclipse of the Sun, August 8. Invisible in America.

IV. A Total Eclipse of the Moon, August 23, the Moon rising more or less eclipsed east of Nebraska to the western boundary of South Carolina and Pennsylvania. In all the Atlantic States the Moon will rise totally eclipsed. See the following table:—

PLACES	End of Total.	Eclipse ends.	PLACES.	End of Total.	Eclipse ends.
	H. M.	H. M.		H. M.	H. M.
Boston	7 15 eve.	8 16 eve.	Raleigh	6 44 eve.	7 45 eve.
New Haven	7 7 "	8 8 "	Charleston	6 39 "	7 40 "
Hartford	7 8 "	8 9 "	Cincinnati	6 21 "	7 22 "
Concord	7 13 "	8 14 "	Chicago	6 9 "	7 10 "
Albany	7 4 "	8 5 "	Madison	6 2 "	7 3 "
New York	7 3 "	8 4 "	Springfield, Ill.	6 1 "	7 2 "
Rochester	6 48 "	7 49 "	Nashville	6 21 "	7 22 "
Buffalo	6 44 "	7 45 "	Louisville	6 17 "	7 18 "
Detroit	6 27 "	7 28 "	New Orleans	5 59 "	7 0 "
Trenton	7 1 "	8 2 "	Saint Louis	5 58 "	6 59 "
Baltimore	6 53 "	7 54 "	Des Moines	5 45 "	6 46 "
Philadelphia	6 59 "	8 0 "	Lawrence	5 38 "	6 39 "
Washington	6 51 "	7 52 "	Austin	contact.	contact.
Richmond, Va.	6 49 "	7 50 "			

V. A Partial Eclipse of the Sun, September 7. Invisible in North America.

Morning Stars.	Evening Stars.
Venus until May 6.	Venus after May 6.
Mars after April 24.	Mars until April 24.
Jupiter until March 22.	Jupiter after March 22.
Saturn from February 28 to June 10.	Saturn until Feb. 28, and after June 10.

*The Astronomical Calculations, in equal or clock time, are made by Samuel H. Wright, A.M., of Penn Yan, Yates Co., N. Y.

Places of the Planets.

TIME.		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
First Sunday	☿	♏	♐	♒	♓	♈	♉	♊	♌	♍	♎	♏	♐
Second Sunday	♂	♏	♏	♐	♐	♑	♒	♒	♒	♒	♒	♒	♓
Third Sunday	♃	♏	♏	♐	♐	♐	♏	♏	♏	♏	♏	♐	♐
Fourth Sunday	♄	♒	♒	♒	♒	♒	♒	♒	♒	♒	♒	♒	♒
Fifth Sunday	♅				♌			♌		♌			♌

Planets Brightest.

Mercury will be in the best position for visibility January 7, May 1, Aug. 28, and December 22, setting then before the Sun; also February 23, June 23, and October 15, rising then before the Sun. Venus not this year, but will be bright during December. Mars, September 5. Jupiter, June 19. Saturn, September 9. Uranus, February 10.

The Four Seasons.

			D.	H.	M.			D.	H.	M.
Winter begins	1876, December	21,	5	46	mo., and lasts	.....	89	1	18
Spring	" 1877, March	20,	7	4	mo.,	"	.....	92	20	6
Summer	" 1877, June	21,	3	10	mo.,	"	.....	93	14	30
Autumn	" 1877, September	22,	5	40	ev.,	"	.....	89	18	2
Winter	" 1877, December	21,	11	42	mo., Tropical year		.....	365	5	56

Cycles of Time and Church Days.

Septuagesima Sunday	Jan.	28	Whitsunday	May 20
Sexagesima Sunday	Feb.	4	Trinity Sunday	" 27
Quinquagesima Sunday	"	11	Corpus Christi	" 31
Ash Wednesday	"	14	Advent Sunday	Dec. 2
Quadragesima Sunday	"	18	Dominical Letter	G.
Mid Lent Sunday	Mar.	11	Epact	15
Palm Sunday	"	25	Lunar Cycle or Golden Number	16
Good Friday	"	30	Solar Cycle	10
Easter Sunday	April	1	Roman Indiction	5
Low Sunday	"	8	Julian Period	6590
Rogation Sunday	May	6	Jewish Lunar Cycle	13
Ascension Day	"	10	Dionysian Period	206

Relative Places of the Moon.

MOON.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	D.	D.	D.	D.	D.	D.	D.	D	D.	D.	D.	D.
Apogee	14	10	10	7	5	1 29	27	23	19	16	13 27	11
Perigee	28	26	26	22	17	13	11	9	6	4	1	23
Highest	11	7	7	3 30	28	24	21	17	14	11	7	5
Lowest	25	22	21	17	15	11	8	5	1 28	26	22	19

NOTE.—The tides may be expected highest when the Moon is in perigee, and lowest at apogee. The duration of moonlight will be greatest when the Moon is highest, and least when it is lowest. When the full Moon falls about the time of the "highest," the entire night will be lighted by the Moon.

Conjunction of Planets, and other Phenomena.

M'TH.	ASPECT.	WASHINGTON TIME. D.	H.	M.	DISTANCE APART. ″	′		M'TH.	ASPECT.	WASHINGTON TIME. D.	H.	M.	DISTANCE APART. ″	′	
Jan.	♃ near ☿	9	9	36 m	☿ 0	34	n	July	☽ near ♃	22	0	30 m	♃ 5	0	n
"	☽ near ♂	9	3	50 e	♂ 5	38	n	"	♂ near ♄	27	5	3 e	♂ 3	43	s
"	☿ gr. elong. E.	10	10	41 e	☿ 18	57	e	"	☽ near ♄	29	5	43 m	♄ 4	17	s
"	☽ near ♃	11	2	7 e	♃ 5	29	n	"	☽ near ♂	29	6	20 m	♂ 8	7	s
"	☽ near ☿	11	6	51 e	☿ 5	54	n	Aug.	♂ stationary	6	2	0 m			
"	☽ near ♄	17	8	54 e	♄ 1	20	s	"	☽ near ☿	10	9	43 e	☿ 2	49	n
Feb.	☽ near ♂	7	9	16 m	♂ 5	28	n	"	☽ near ♃	18	3	49 m	♃ 5	2	n
"	☽ near ♃	8	6	25 m	♃ 5	28	n	"	♃ stationary	20	9	0 m			
"	☽ near ☿	11	3	16 m	☿ 3	0	n	"	☽ eclipsed vis	23	0	0 e			
"	☽ near ♄	14	9	26 m	♄ 1	42	s	"	☽ near ♄	25	8	20 m	♄ 4	14	s
"	☿ gr. elong. E.	20	■	25 e	☿ 26	41	w	"	☽ near ♂	25	8	37 m	♂ 8	46	s
Mar.	♂ near ♃	1	10	20 m	♂ 0	32	s	"	♂ near ♄	26	4	7 m	♂ 4	32	s
"	☽ near ♃	7	9	14 e	♃ 5	33	n	"	☿ gr. elong. E.	31	11	50 m	☿ 27	10	e
"	☽ near ♂	8	4	6 m	♂ 4	36	n	Sept.	♂ ☌ ☉	5	6	32 e	♂ 180		e
"	☽ near ☿	13	5	6 e	☿ 1	24	s	"	♄ ☌ ☉	9	9	0 m	♄ 180		e
"	☽ near ♄	13	10	57 e	♄ 2	4	s	"	☽ near ☿	9	8	14 e	☿ 4	37	n
"	☿ near ♄	16	4	44 m	☿ 0	20	n	"	☽ near ♃	14	0	13 e	♃ 4	55	n
"	♃ □ ☉	22	4	54 e	♃ 90	0	w	"	♃ □ ☉	17	2	35 e	♃ 90	0	e
Apr.	☽ near ♃	4	9	44 m	♃ 5	10	n	"	☽ near ♂	20	11	46 e	♂ 6	48	s
"	☽ near ♂	6	0	31 m	♂ 3	1	n	"	☽ near ♄	21	10	14 m	♄ 4	2	s
"	☽ near ♄	10	1	18 e	♄ 2	31	s	Oct.	♂ stationary	5	2	0 e			
"	☽ near ☿	13	4	2 m	♂ 4	58	s	"	☽ near ☿	9	5	58 e	☿ 3	47	n
"	♃ stationary	19	8	0 e				"	☽ near ♃	12	1	56 m	♃ 4	35	n
"	♂ □ ☉	24	10	14 e	♂ 90	0	w	"	☿ gr. elong. W	12	7	15 m	☿ 18	6	n
May	☽ near ♃	1	6	36 e	♃ 4	59	n	"	♄ near ♂	18	4	33 m	♂ 4	28	s
"	☿ gr. elong. E.	3	11	43 m	☿ 21	5	e	"	☽ near ♄	18	1	44 e	♄ 3	54	s
"	☽ near ♂	4	9	50 e	♂ 0	39	n	Nov.	☽ near ♄	3	11	56 e	♂ 0	11	n
"	☽ near ♄	8	3	1 m	♄ 3	3	s	"	☽ near ☿	8	5	27 e	☿ 1	30	n
"	☽ near ☿	13	6	4 m	☿ 5	23	s	"	☽ near ♃	8	7	40 e	♃ 4	7	n
"	☽ near ♃	28	11	4 e	♃ 4	51	n	"	☽ near ☿	9	11	37 e	☿ 2	42	s
June	☽ near ♂	2	5	36 e	♂ 2	22	s	"	☽ near ♄	14	8	15 e	♄ 4	6	s
"	☽ near ♄	4	3	12 e	♄ 2	37	s	"	☽ near ♂	15	4	52 m	♂ 3	34	s
"	♄ □ ☉	10	3	35 e	♄ 90	0	w	"	♂ stationary	16	11	0 m			
"	☽ near ♄	12	2	35 m	☿ 3	47	s	Dec.	♄ □ ☉	5	4	49 e	♄ 90	0	e
"	♃ ☌ ☉	19	5	27 e	♃ 180	0	e	"	☽ near ♃	6	3	26 e	♃ 3	37	n
"	☿ gr. elong. W	20	5	52 e	☿ 22	35	n	"	☽ near ☿	8	6	19 e	☿ 0	42	s
"	☽ near ♃	25	0	5 m	♃ 4	53	n	"	☿ gr. elong. E.	11	6	30 m	☿ 47	19	e
July	♄ stationary	1	2	0 m				"	☽ near ♄	12	5	53 m	♄ 4	15	s
"	☽ near ♂	1	6	59 m	♂ 5	33	s	"	☽ near ♂	13	5	18 e	♂ 3	46	s
"	☽ near ♄	2	0	17 m	♄ 4	4	s	"	☿ gr. elong. E.	25	6	6 m	☿ 19	47	e
"	☉ apogee.	3	9	0 e				"	☉ perigee	31	7	0 m			
"	☽ near ☿	8	11	11 e	☿ 0	42	s								

ASTRONOMICAL SIGNS EXPLAINED.

☿ Mercury, ♀ Venus, ♂ Mars, ♃ Jupiter, ♄ Saturn, ♅ Uranus, ♆ Neptune, ☽ Moon, ☌ opposition, or half a circle apart, □ quadrature, or quarter of a circle apart, ☌ conjunction, or together, having the same Right Ascension. The word *near*, used above, means the same, and indicates that the two bodies are then on a line running from the North Pole through both. Gr. elong., greatest elongation, or furthest distance from the Sun; Stationary, when the planet is without apparent motion, and is about to move in ■ direction contrary to that it had last. The above table enables us to find the planets throughout the year.

The year 1877, until July 4th, is the one hundred and first year of the Independence of the United States.

Interesting Astronomical Facts.

The Earth (nearly spheroidal) is about 7,926 miles in diameter at the equator, and 7,899 miles in diameter at the poles. It rotates on its shortest diameter with a uniform motion once in 23 hours, 56 minutes, and 4 seconds, making what is called a *sidereal day*.

The Earth revolves round about the sun with nearly uniform motion in 365 days, 5 hours, 48 minutes, and 47.8 seconds. It presents the same side to the sun *on an average* once in twenty-four hours, an hour being the twenty-fourth part of an average solar day.

The rotation of the Earth on its axis causes all the heavenly bodies to appear to rise in the east and set in the west, that is, to rotate about the points in the sky toward which the axis of the Earth is directed; in other words, the points which would be directly overhead at the poles.

The axis of the Earth always points to nearly the same place among the stars, showing that it remains nearly parallel to itself. But as it is not perpendicular to the path in which the Earth is moving round the sun, this fixedness of direction in the axis causes our globe to present itself to the sun in its daily rotation differently at different seasons of the year, turning the two poles alternately more nearly toward the sun. This causes the sun to appear to us to rise further north in summer, further south in winter, but his course from sunrise to sunset on any one day is very nearly parallel to his course on any other day. Hence when he rises further north he remains longer above the horizon, and shines down more nearly perpendicularly at noon—two effective causes of the warmth of summer.

To Ascertain the Length of the Day and Night.

At any time of the year, add 12 hours to the time of the Sun's setting, and from the sum subtract the time of rising, for the *length of the day*. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning, for the *length of the night*. These rules are equally true for *apparent* time.

Directions for Finding the True Time.

The Sun is on the meridian at 12 o'clock on four days only in the year. It is sometimes as much as 16¼ minutes before or after 12 when its shadow strikes the noon-mark on the sun-dial. On each calendar page of this Almanac is shown the exact time when the Sun reaches the meridian, or the shadow at the noon-mark; and in order to set a clock or watch correctly, it must, when it is noon by the sun-dial or noon-mark, be set at the time indicated in the Almanac. Thus, on the 25th of January, when the Sun is on the noon-mark, the watch must be set 12 minutes and 34 seconds past twelve, which will be the true time. The practice of setting time-pieces by the rising or setting of the Sun or Moon is not strictly correct, as the unevenness of the Earth's surface and intervening objects, such as hills and forests, near the points of rising and setting, occasion a deviation, in every place, from the time expressed in the Almanac, which time is adapted to a smooth, level horizon. The only means of keeping correct time is by the use of a noon-mark, or a meridian-line.

1877. JANUARY. 31 Days.

MOON'S PHASES.	D	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
☾ Last Quarter. . . .	6	9 33 m	9 21 m	8 57 m	8 39 m	8 27 m	6 7 m
● New Moon	14	8 44 m	8 32 m	8 8 m	7 50 m	7 38 m	5 18 m
☽ First Quarter . .	22	11 9 m	10 57 m	10 32 m	10 15 m	10 3 m	7 43 m
○ Full Moon	29	3 55 m	3 43 m	3 19 m	3 1 m	2 49 m	0 28 m

Day of Month.	Day of Week.	Shadow at the noon-mark.	Afternoon.	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon.				NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois.				WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California.			CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana.			
				Rises	Sets	☾ Rises	High W. Boston.	Rises	Sets	☾ Rises	High W. N. York	Rises	Sets	☾ Rises	Rises	Sets	☾ Rises	High W. Charles.
		H M S	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M
1	M	12 4 6	12 30	7 30	4 38	7 6	ev. 54	7 25	4 43	7 11	9 40	7 19	4 49	7 15	7 5	5 5	7 29	8 54
2	T	12 4 34	12 30	7 30	4 39	8 19	1 45	7 25	4 44	8 22	10 29	7 19	4 50	8 25	7 5	5 6	8 34	9 45
3	W	12 5 2	12 30	7 30	4 40	9 35	2 33	7 25	4 45	9 37	11 15	7 19	4 51	9 38	7 5	5 7	9 43	10 33
4	T	12 5 29	12 30	7 30	4 41	10 46	3 20	7 25	4 46	10 46	ev. 5	7 19	4 52	10 46	7 5	5 7	10 46	11 20
5	F	12 5 56	12 30	7 30	4 42	11 58	4 5	7 25	4 47	11 56	0 52	7 19	4 53	11 55	7 5	5 8	11 50	ev. 5
6	S	12 6 22	12 30	7 30	4 43	morn	4 56	7 25	4 48	morn	1 43	7 19	4 54	0 59	7 4	5 9	morn	0 56
7	☽	12 6 48	12 30	7 30	4 44	1 5	5 49	7 25	4 49	1	2 35	7 19	4 54	2 5	7 4	5 10	0 51	1 49
8	M	12 7 13	12 30	7 30	4 45	2 14	6 45	7 24	4 50	2 10	3 31	7 19	4 55	3 10	7 4	5 10	1 53	2 45
9	T	12 7 38	12 30	7 30	4 46	3 20	7 43	7 24	4 51	3 15	4 28	7 19	4 56	4 16	7 4	5 11	2 55	3 43
10	W	12 8 2	12 29	7 29	4 47	4 29	8 43	7 24	4 52	4 22	5 28	7 19	4 57	5 16	7 4	5 12	3 56	4 43
11	T	12 8 26	12 29	7 29	4 48	5 30	9 37	7 24	4 53	5 23	6 23	7 19	4 58	6 11	7 3	5 13	4 56	5 37
12	F	12 8 49	12 29	7 29	4 49	6 25	10 27	7 23	4 54	6 18	7 12	7 18	4 59	6 57	7 3	5 14	5 49	6 27
13	S	12 9 12	12 28	7 28	4 50	7 11	11 14	7 23	4 55	7 5	7 56	7 18	5 0	7 37	7 3	5 15	6 37	7 14
14	☽	12 9 34	12 28	7 28	4 51	sets	11 56	7 23	4 56	sets	8 39	7 18	5 1	sets	7 3	5 16	sets	7 56
15	M	12 9 55	12 27	7 27	4 53	6 4	morn	7 22	4 57	6 8	9 22	7 18	5 2	6 13	7 3	5 17	6 27	8 35
16	T	12 10 15	12 27	7 27	4 54	7 7	0 35	7 22	4 59	7 10	9 58	7 17	5 3	7 13	7 2	5 18	7 24	9 12
17	W	12 10 35	12 26	7 26	4 55	8 9	1 12	7 21	5 0	8 11	10 32	7 17	5 4	8 13	7 2	5 19	8 19	9 48
18	T	12 10 54	12 26	7 26	4 56	9 10	1 48	7 21	5 1	9 11	11 6	7 16	5 5	9 12	7 2	5 20	9 14	10 23
19	F	12 11 12	12 25	7 25	4 58	9 48	2 23	7 21	5 2	9 48	11 44	7 16	5 7	9 49	7 2	5 21	9 50	10 59
20	S	12 11 30	12 24	7 24	4 59	11 15	2 59	7 20	5 3	11 14	morn	7 15	5 8	11 12	7 2	5 21	11 7	11 39
21	☽	12 11 46	12 23	7 23	5 0	morn	3 39	7 19	5 4	morn	0 25	7 15	5 9	morn	7 1	5 22	morn	morn
22	M	12 12 2	12 22	7 22	5 1	0 20	4 24	7 18	5 5	0 17	1 11	7 14	5 10	0 14	7 1	5 23	0 5	0 24
23	T	12 12 17	12 22	7 22	5 3	1 28	5 15	7 17	5 7	1 24	2 1	7 14	5 11	1 16	7 1	5 24	1 6	1 15
24	W	12 12 32	12 21	7 21	5 4	2 40	6 19	7 17	5 8	2 35	3 5	7 13	5 12	2 29	7 0	5 25	2 12	2 19
25	T	12 12 45	12 20	7 20	5 5	3 57	7 26	7 16	5 9	3 48	4 11	7 12	5 13	3 41	7 0	5 26	3 20	3 26
26	F	12 12 58	12 20	7 20	5 6	5 5	8 41	7 16	5 10	4 58	5 26	7 12	5 15	4 51	6 59	5 27	4 29	4 41
27	S	12 13 10	12 19	7 19	5 7	6 8	9 49	7 15	5 11	6 1	6 35	7 11	5 16	5 54	6 58	5 28	5 33	5 49
28	☽	12 13 21	12 18	7 18	5 9	rises	10 53	7 14	5 13	rises	7 37	7 10	5 17	rises	6 58	5 29	rises	6 53
29	M	12 13 31	12 17	7 17	5 10	5 49	11 44	7 13	5 14	5 53	8 27	7 9	5 18	5 56	6 57	5 30	6 8	7 44
30	T	12 13 40	12 16	7 16	5 11	7 10	ev. 34	7 12	5 15	7 12	9 21	7 8	5 19	7 15	6 57	5 31	7 21	8 34
31	W	12 13 49	12 15	7 15	5 13	8 26	1 20	7 12	5 16	8 26	10 6	7 8	5 20	8 27	6 56	5 32	8 29	9 20

1877. FEBRUARY. 28 Days.

MOON'S PHASES.	D	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
Last Quarter.(*5th)	4	0 16 m	0 4 m	11 40 e	11 22 e	11 10 e	8 50 e
New Moon.	13	4 15 m	4 3 m	3 39 m	3 21 m	3 9 m	0 49 m
First Quarter . . .	20	11 31 e	11 19 e	10 55 e	10 37 m	10 25 m	8 5 m
Full Moon.	27	2 30 e	2 18 e	1 54 e	1 36 e	1 24 e	11 2 m

Day of Month.	Day of Week.	Shadow at the noon-mark. Afternoon. H M S	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. Rises H M	Sets H M	Rises H M	High W. BOSTON. H M	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. Rises H M	Sets H M	Rises H M	High W. N. YORK. H M	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. Rises H M	Sets H M	Rises H M	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. Rises H M	Sets H M	Rises H M	High W. CHS'T'N. H M
1	T	12 13 57	7 14	5 14	9 39	2 5	7 11	5 18	9 38	10 47	7 7	5 21	9 37	6 55	5 33	9 34	10 5
2	F	12 14 3	7 13	5 15	10 51	2 47	7 10	5 19	10 49	11 29	7 6	5 23	10 47	6 55	5 34	10 40	10 47
3	S	12 14 10	7 11	5 16	morn	3 31	7 9	5 20	11 58	ev. 17	7 5	5 24	11 54	6 54	5 34	11 43	11 31
4	S	12 14 15	7 10	5 18	0 2	4 20	7 7	5 21	morn	1 7	7 4	5 25	morn	6 53	5 35	morn	ev. 20
5	M	12 14 19	7 9	5 19	1 13	5 14	7 6	5 22	1 7	2 0	7 3	5 26	1 2	6 52	5 36	0 47	1 14
6	T	12 14 23	7 8	5 20	2 18	6 13	7 5	5 23	2 12	2 59	7 2	5 27	2 6	6 52	5 37	1 48	2 13
7	W	12 14 28	7 7	5 22	3 23	7 18	7 4	5 25	3 17	4 3	7 1	5 28	3 9	6 51	5 38	2 49	3 18
8	T	12 14 32	7 6	5 23	4 20	8 19	7 3	5 26	4 14	5 3	7 0	5 29	4 6	6 50	5 39	3 44	4 19
9	F	12 14 36	7 5	5 25	5 10	9 15	7 2	5 27	5 3	6 1	6 59	5 30	4 55	6 49	5 40	4 34	5 15
10	S	12 14 40	7 4	5 26	5 52	10 5	7 1	5 28	5 46	6 51	6 58	5 32	5 39	6 48	5 41	5 19	6 5
11	S	12 14 44	7 2	5 27	6 24	10 51	7 0	5 30	6 19	7 35	6 57	5 33	6 13	6 47	5 42	5 57	6 51
12	M	12 14 48	7 1	5 29	6 49	11 29	6 58	5 31	6 45	8 12	6 55	5 34	6 40	6 47	5 43	6 27	7 29
13	T	12 14 52	7 0	5 30	sets	morn	6 57	5 32	sets	8 49	6 54	5 35	sets	6 46	5 44	sets	8 4
14	W	12 14 56	6 58	5 31	7 3	0 4	6 56	5 34	7 5	9 24	6 53	5 36	7 6	6 45	5 45	7 10	8 38
15	T	12 15 0	6 57	5 33	8 5	0 38	6 55	5 35	8 5	9 58	6 52	5 38	8 5	6 44	5 46	8 5	9 12
16	F	12 15 4	6 55	5 34	9 7	1 12	6 53	5 36	9 5	10 40	6 51	5 39	9 4	6 43	5 47	9 0	9 48
17	S	12 15 8	6 54	5 35	10 11	1 48	6 52	5 37	10 9	11 8	6 49	5 40	10 6	6 42	5 48	9 58	10 25
18	S	12 15 12	6 52	5 36	11 19	2 25	6 51	5 39	11 16	11 51	6 48	5 41	11 11	6 41	5 48	10 59	11 6
19	M	12 15 16	6 51	5 38	morn	3 6	6 49	5 40	morn	morn	6 47	5 42	morn	6 40	5 49	morn	11 54
20	T	12 15 20	6 50	5 39	0 29	3 54	6 48	5 41	0 24	0 40	6 46	5 44	0 18	6 39	5 50	0 2	morn
21	W	12 15 24	6 48	5 41	1 40	4 52	6 46	5 43	1 33	1 39	6 44	5 45	1 27	6 37	5 51	1 7	0 52
22	T	12 15 28	6 47	5 42	2 48	6 1	6 45	5 44	2 41	2 47	6 43	5 46	2 33	6 36	5 52	2 12	2 1
23	F	12 15 32	6 45	5 43	3 53	7 17	6 44	5 45	3 45	4 2	6 42	5 47	3 38	6 35	5 53	3 16	3 17
24	S	12 15 36	6 44	5 45	4 47	8 31	6 42	5 46	4 41	5 17	6 40	5 48	4 34	6 34	5 54	4 14	4 31
25	S	12 15 40	6 42	5 46	5 31	9 37	6 41	5 48	5 26	6 23	6 38	5 49	5 20	6 33	5 55	5 4	5 37
26	M	12 15 44	6 41	5 47	6	10 34	6 39	5 49	6 2	7 19	6 37	5 51	5 58	6 32	5 56	5 46	6 34
27	T	12 15 48	6 39	5 48	rises	11 23	6 38	5 50	rises	8 6	6 36	5 52	rises	6 31	5 57	rises	7 23
28	W	12 15 52	6 37	5 49	7 12	ev. 8	6 37	5 51	7 12	8 53	6 34	5 53	7 12	6 30	5 58	7 12	8 8

1877. MARCH. 31 Days.

MOON'S PHASES.	D	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
● Last Quarter. . . .	6	5 17 e	5 5 e	4 41 e	4 23 e	4 11 e	1 51 e
● New Moon	14	10 9 e	9 57 e	9 34 e	9 16 e	9 4 e	6 44 e
◐ First Quarter . .	22	8 25 m	8 13 m	7 49 m	7 31 m	7 19 m	4 59 m
○ Full Moon . (*28th)	29	1 5 m	0 53 m	0 29 m	0 11 m	11 59 e	9 39 e

Day of Month.	Day of Week.	Shadow at the noon-mark.	Afternoon. H M S	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. RISES H M	SETS H M	High W. BOSTON. H M	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. RISES H M	SETS H M	High W. N. YORK H M	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. RISES H M	SETS H M	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. RISES H M	SETS H M	High W. CH'ST'N. H M
1	T	28	12 12	6 36	5 51	8 26	6 35	5 53	8 25	6 33	5 54	8 23	6 28	5 59	8 19
2	F	28	12 12	6 35	5 52	9 40	6 34	5 53	9 37	6 32	5 55	9 34	6 27	5 59	9 25
3	S	2	12 12	6 33	5 53	10 55	6 32	5 54	10 50	6 30	5 56	10 46	6 26	6 0	10 33
4	☾	2	12 11	6 31	5 54	morn	6 30	5 55	11 59	6 29	5 57	11 53	6 25	6 0	11 36
5	S	49	12 11	6 30	5 55	0 5	6 29	5 56	morn	6 27	5 57	morn	6 23	6 1	morn
6	M	35	12 11	6 28	5 56	1 13	6 27	5 57	1 6	6 26	5 58	1 0	6 22	6 1	0 39
7	T	21	12 11	6 26	5 57	2 13	6 25	5 58	2 6	6 24	5 59	1 59	6 21	6 2	1 37
8	W	6	12 11	6 26	5 57	2 13	6 25	5 58	2 6	6 24	5 59	1 59	6 21	6 2	1 37
9	T	51	12 10	6 25	5 58	3 5	6 24	5 59	2 58	6 23	6 0	2 51	6 20	6 3	2 29
10	F	36	12 10	6 23	5 59	3 50	6 22	6 0	3 43	6 21	6 1	3 36	6 19	6 3	3 15
11	S	20	12 10	6 21	6 0	4 24	6 20	6 1	4 18	6 20	6 2	4 12	6 17	6 4	3 54
12	S	6	12 10	6 20	6 2	4 53	6 19	6 2	4 48	6 18	6 3	4 43	6 16	6 5	4 28
13	M	48	12 9	6 18	6 3	5 16	6 17	6 3	5 13	6 17	6 4	5 9	6 15	6 6	4 59
14	T	31	12 9	6 16	6 4	5 36	6 16	6 4	5 34	6 15	6 5	5 32	6 13	6 7	5 25
15	W	14	12 9	6 14	6 5	5 56	6 14	6 5	5 55	6 13	6 6	5 54	6 12	6 7	5 51
16	T	57	12 8	6 13	6 6	sets	6 12	6 6	sets	6 12	6 7	sets	6 11	6 8	sets
17	F	40	12 8	6 11	6 7	8 4	6 11	6 8	8 1	6 10	6 8	7 59	6 10	6 9	7 53
18	S	22	12 8	6 9	6 9	9 10	6 9	6 9	9 7	6 9	6 9	9 3	6 8	6 9	8 53
19	☽	5	12 8	6 7	6 10	10 19	6 7	6 10	10 14	6 7	6 10	10 9	6 7	6 10	9 54
20	M	7	12 7	6 6	6 11	11 33	6 6	6 11	11 27	6 6	6 11	11 21	6 6	6 11	11 2
21	T	47	12 7	6 4	6 12	morn	6 4	6 12	morn	6 4	6 12	morn	6 4	6 12	morn
22	W	11	12 7	6 2	6 13	0 39	6 3	6 13	0 33	6 3	6 13	0 25	6 3	6 12	0 5
23	T	6	12 6	6 0	6 14	1 44	6 1	6 14	1 38	6 1	6 14	1 30	6 1	6 13	1 8
24	F	34	12 6	5 59	6 15	2 41	5 59	6 15	2 35	5 59	6 15	2 27	5 59	6 14	2 7
25	S	16	12 6	5 57	6 17	3 27	5 58	6 16	3 21	5 58	6 16	3 15	5 58	6 14	2 57
26	S	5	12 5	5 55	6 18	3 53	5 56	6 17	3 49	5 56	6 17	3 44	5 57	6 15	3 30
27	M	39	12 5	5 53	6 19	4 33	5 54	6 18	4 30	5 54	6 18	4 27	5 56	6 16	4 18
28	T	20	12 5	5 52	6 20	5 0	5 52	6 19	4 59	5 53	6 19	4 57	5 55	6 16	4 53
29	W	1	12 5	5 50	6 21	5 24	5 51	6 20	5 24	5 51	6 20	5 24	5 54	6 17	5 24
30	T	43	12 4	5 48	6 22	5 46	5 49	6 21	7 39	5 50	6 20	rises	5 52	6 18	rises
31	F	25	12 4	5 46	6 23	8 30	5 47	6 22	8 26	5 48	6 21	8 22	5 51	6 19	8 11
	S	6	12 4	5 45	6 24	9 43	5 46	6 23	9 38	5 47	6 22	9 33	5 50	6 19	9 17

Day of Month.	Day of Week.	High W. N. YORK H M	RISES H M	SETS H M	High W. CH'ST'N. H M
1	T	9 34	6 23	6 6	8 48
2	F	9 40	6 22	6 7	9 31
3	S	10 55	6 20	6 8	10 15
4	☾	morn	6 19	6 9	10 59
5	S	0 5	6 18	6 10	11 49
6	M	1 13	6 16	6 11	ev. 45
7	T	2 13	6 15	6 12	1 48
8	W	2 58	6 14	6 13	2 49
9	T	3 43	6 13	6 14	3 52
10	F	4 18	6 12	6 15	4 47
11	S	4 48	6 11	6 16	5 35
12	S	5 13	6 10	6 17	6 17
13	M	5 34	6 9	6 18	6 55
14	T	5 55	6 8	6 19	7 31
15	W	8 50	6 7	6 20	8 5
16	T	9 25	6 6	6 21	8 39
17	F	9 7	6 5	6 22	9 18
18	S	10 14	6 4	6 23	10 0
19	☽	11 27	6 3	6 24	10 45
20	M	morn	6 2	6 25	morn
21	T	0 33	6 1	6 26	0 42
22	W	1 38	6 0	6 27	1 54
23	T	2 35	5 59	6 28	3 8
24	F	3 21	5 58	6 29	4 17
25	S	3 49	5 57	6 30	5 24
26	S	4 30	5 56	6 31	6 9
27	M	4 59	5 55	6 32	6 56
28	T	5 24	5 54	6 33	7 38
29	W	7 39	5 53	6 34	rises
30	T	rises	5 52	6 35	8 22
31	F	8 26	5 51	6 36	9 5
	S	9 38	5 50	6 37	9 47

1877. APRIL. 30 Days.

MOON'S PHASES.

	D	H	M
☽ Last Quarter. . . .	5	11	46 m
● New Moon.	13	1	6 e
☾ First Quarter . . .	20	2	53 e
○ Full Moon.	27	11	52 m

	Boston.		New York.		Charleston.		Cincinnati.		Chicago.		S. Francisco.	
	H	M	H	M	H	M	H	M	H	M	H	M
☽ Last Quarter. . . .	11	46 m	11	34 m	11	10 m	10	52 m	10	40 m	8	20 m
● New Moon.	1	6 e	0	54 e	0	30 e	0	12 e	0	0 m	9	40 m
☾ First Quarter . . .	2	53 e	2	41 e	2	17 e	1	59 e	1	47 e	11	27 m
○ Full Moon.	11	52 m	11	40 m	11	16 m	10	58 m	10	46 m	8	26 m

Day of Month.	Day of Week.	Shadow at the ocean-mark. Morning. H M S	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. Rises H M	Sets H M	High W. Boston. H M	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. Rises H M	Sets H M	High W. New York. H M	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. Rises H M	Sets H M	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. Rises H M	Sets H M	High W. Charl'n. H M
1	☾	12 3 48	5 43	6 26	10 54	5 44	6 24	10 48	10 31	5 46	6 23	10 42	5 48	6 20	10 23	9 47
2	M	12 3 30	5 42	6 28	11 54	5 42	6 26	11 52	11 18	5 44	6 24	11 45	5 47	6 21	11 24	10 34
3	T	12 3 12	5 40	6 29	morn	5 41	6 27	morn	ev. 10	5 42	6 25	morn	5 45	6 22	morn	11 25
4	W	12 2 54	5 38	6 30	0 56	5 39	6 28	0 50	1 7	5 41	6 26	0 42	5 45	6 22	0 20	ev. 20
5	T	12 2 37	5 36	6 31	1 45	5 37	6 29	1 39	2 4	5 39	6 27	1 31	5 43	6 23	1 11	1 18
6	F	12 2 19	5 34	6 32	2 23	5 36	6 30	2 17	3 5	5 37	6 28	2 10	5 42	6 23	1 52	2 19
7	S	12 2 2	5 32	6 33	2 54	5 34	6 31	2 49	4 1	5 36	6 29	2 44	5 41	6 24	2 23	3 16
8	☽ M	12 1 45	5 31	6 34	3 31	5 33	6 32	3 27	4 62	5 34	6 30	3 23	5 39	6 25	3 10	4 8
9	M	12 1 28	5 29	6 35	3 42	5 31	6 33	3 39	5 59	5 33	6 31	3 36	5 38	6 26	3 28	4 54
10	T	12 1 12	5 27	6 36	4 0	5 30	6 34	3 59	6 22	5 31	6 32	3 57	5 37	6 26	3 53	5 36
11	W	12 0 56	5 26	6 37	4 14	5 28	6 35	4 14	7 2	5 30	6 33	4 14	5 36	6 27	4 13	6 16
12	T	12 0 40	5 24	6 38	4 39	5 26	6 36	4 40	7 38	5 28	6 34	4 41	5 34	6 28	4 44	6 55
13	F	12 0 25	5 23	6 40	5 0	5 25	6 37	5 2	8 14	5 27	6 35	5 5	5 33	6 29	5 12	7 32
14	S	12 0 10	5 21	6 41	sets	5 24	6 38	sets	8 57	5 25	6 36	sets	5 32	6 29	sets	8 11
15	☽ M	11 59 55	5 19	6 42	9 18	5 22	6 39	9 13	9 42	5 24	6 37	9 7	5 31	6 30	8 50	8 56
16	M	11 59 40	5 18	6 43	10 30	5 20	6 40	10 23	10 23	5 23	6 38	10 17	5 30	6 31	9 56	9 44
17	T	11 59 26	5 16	6 44	11 38	5 19	6 41	11 31	11 19	5 21	6 39	10 23	5 28	6 31	11 2	10 37
18	W	11 59 13	5 14	6 45	morn	5 17	6 42	morn	morn	5 20	6 40	morn	5 27	6 32	morn	11 35
19	T	11 58 59	5 13	6 47	0 36	5 16	6 43	0 29	0 19	5 18	6 41	0 22	5 26	6 33	0 1	morn
20	F	11 58 46	5 11	6 48	1 26	5 14	6 44	1 20	1 26	5 17	6 42	1 14	5 25	6 33	0 55	0 39
21	S	11 58 34	5 10	6 49	2 4	5 13	6 45	1 59	2 33	5 16	6 42	1 54	5 24	6 34	1 39	1 47
22	☽ M	11 58 22	5 8	6 50	2 37	5 11	6 46	2 33	3 40	5 14	6 43	2 30	5 23	6 35	2 19	2 55
23	M	11 58 10	5 6	6 51	3 2	5 10	6 47	3 0	4 39	5 13	6 44	2 58	5 21	6 36	2 51	3 54
24	T	11 57 59	5 5	6 52	3 25	5 8	6 48	3 24	5 35	5 11	6 45	3 24	5 20	6 36	3 22	4 50
25	W	11 57 48	5 3	6 53	3 49	5 7	6 49	3 50	6 26	5 10	6 46	3 51	5 19	6 37	3 54	5 40
26	T	11 57 38	5 2	6 54	4 12	5 6	6 50	4 14	7 12	5 9	6 47	4 16	5 18	6 38	4 13	6 26
27	F	11 57 29	5 1	6 55	rises	5 5	6 51	rises	7 52	5 8	6 48	rises	5 17	6 38	rises	7 10
28	S	11 57 19	4 59	6 56	8 44	5 3	6 52	8 38	8 37	5 6	6 49	8 32	5 16	6 39	8 15	7 54
29	☽ M	11 57 11	4 58	6 58	9 42	5 2	6 53	9 35	9 23	5 5	6 50	9 29	5 15	6 40	9 8	8 37
30	M	11 57 3	4 56	6 59	10 44	5 0	6 55	10 37	10 12	5 4	6 51	10 29	5 14	6 41	10 8	9 26

1877. MAY. 31 Days.

MOON'S PHASES.

	D	H	M
◑ Last Quarter	5	6	35 m
● New Moon	13	0	45 m
◐ First Quarter	19	8	12 e
○ Full Moon	26	11	21 e

Day of Month	Day of Week	Shadow at the noon-mark. Morning. H M S	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. RISES H M	SETS H M	RISES H M	High W. BOSTON. H M	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. RISES H M	SETS H M	RISES H M	High W. N.YORK H M	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. RISES H M	SETS H M	RISES H M	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. RISES H M	SETS H M	RISES H M	High W. CH'ST'N. H M	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
1	T	11 56 55	4 55	7 0	11 39	2 14	4 59	6 56	11 32	10 56	5 2	6 52	11 24	5 13	6 42	11 3	10 14	6 26 m	5 59 m	5 41 m	5 29 m	3 9 m
2	W	11 56 48	4 53	7 1	morn	3 2	4 58	6 57	morn	11 47	5 1	6 53	morn	5 12	6 43	11 46	11 2	0 33 m	0 9 m	11 51 e	11 39 e	9 19 e
3	T	11 56 41	4 52	7 2	0 19	3 52	4 56	6 58	0 13	ev. 38	5 0	6 54	0 6	5 11	6 44	morn	11 52	7 36 e	7 18 e	7 6 e	6 46 e	4 46 e
4	F	11 56 34	4 50	7 3	0 54	4 43	4 55	6 59	0 48	1 30	4 59	6 55	0 43	5 10	6 45	0 26	ev. 43	8 12 e	8 0 e	7 48 e	7 33 e	5 22 e
5	S	11 56 30	4 49	7 4	1 20	5 35	4 54	7 0	1 16	2 21	4 58	6 56	1 12	5 9	6 45	0 58	1 35	8 48 e	8 36 e	8 24 e	8 9 e	6 0 e
6	S	11 56 25	4 48	7 5	1 43	6 26	4 53	7 1	1 40	3 12	4 57	6 57	1 37	5 8	6 46	1 27	2 26	9 24 e	9 12 e	9 0 e	8 45 e	6 36 e
7	M	11 56 21	4 47	7 6	2 3	7 17	4 52	7 2	2 1	4 2	4 55	6 58	1 59	5 7	6 47	1 53	3 17	10 0 e	9 48 e	9 36 e	9 21 e	7 12 e
8	T	11 56 18	4 46	7 7	2 23	8 6	4 51	7 3	2 22	4 50	4 54	6 59	2 22	5 7	6 47	2 19	4 6	10 36 e	10 24 e	10 12 e	9 57 e	7 48 e
9	W	11 56 15	4 45	7 8	2 41	8 51	4 49	7 4	2 42	5 36	4 53	7 0	2 42	5 6	6 48	2 44	4 51	11 12 e	11 0 e	10 48 e	10 33 e	8 24 e
10	T	11 56 12	4 44	7 9	3 11	9 35	4 48	7 5	3 13	6 21	4 52	7 1	3 14	5 5	6 49	3 20	5 35	11 48 e	11 36 e	11 24 e	11 9 e	9 0 e
11	F	11 56 10	4 43	7 10	3 26	10 20	4 47	7 6	3 28	7 6	4 51	7 2	3 31	5 4	6 49	3 41	6 20					
12	S	11 56 9	4 42	7 11	3 55	11 6	4 46	7 7	4 0	7 48	4 50	7 2	4 4	5 3	6 50	4 18	7 6					
13	S	11 56 8	4 41	7 12	sets	11 54	4 45	7 8	sets	8 37	4 49	7 3	sets	5 2	6 51	sets	7 54					
14	M	11 56 8	4 40	7 13	9 25	morn	4 44	7 9	9 18	9 30	4 49	7 4	9 11	5 2	6 51	8 50	8 44					
15	T	11 56 9	4 39	7 14	10 29	0 44	4 43	7 10	10 22	10 23	4 48	7 5	10 14	5 1	6 52	9 53	9 38					
16	W	11 56 10	4 38	7 15	11 20	1 38	4 42	7 11	11 14	11 15	4 47	7 6	11 7	5 0	6 53	10 47	10 33					
17	T	11 56 11	4 37	7 16	morn	2 33	4 41	7 12	11 59	morn	4 46	7 7	11 54	5 0	6 54	11 37	11 29					
18	F	11 56 14	4 36	7 17	0 4	3 29	4 40	7 13	morn	0 15	4 45	7 8	morn	4 59	6 54	morn	morn					
19	S	11 56 16	4 36	7 18	0 38	4 27	4 39	7 14	0 35	1 14	4 44	7 9	0 30	4 58	6 55	0 18	0 27					
20	S	11 56 19	4 35	7 19	1 6	5 27	4 39	7 15	1 4	2 13	4 43	7 10	1 1	4 58	6 55	0 54	1 27					
21	M	11 56 23	4 34	7 20	1 31	6 25	4 38	7 16	1 30	3 11	4 43	7 10	1 29	4 57	6 56	1 26	2 25					
22	T	11 56 27	4 33	7 21	1 53	7 22	4 37	7 17	1 53	4 7	4 42	7 11	1 54	4 57	6 57	1 55	3 22					
23	W	11 56 32	4 32	7 22	2 16	8 17	4 36	7 18	2 18	5 1	4 41	7 12	2 19	4 56	6 57	2 25	4 17					
24	T	11 56 37	4 32	7 23	2 38	9 9	4 36	7 19	2 41	5 54	4 41	7 13	2 45	4 56	6 58	2 55	5 5					
25	F	11 56 43	4 31	7 24	3 5	9 58	4 35	7 20	3 10	6 44	4 40	7 14	3 14	4 55	6 59	3 29	5 58					
26	S	11 56 49	4 30	7 25	3 36	10 48	4 34	7 20	3 41	7 32	4 39	7 14	3 47	4 55	7 0	4 5	6 48					
27	S	11 56 56	4 29	7 26	rises	11 33	4 34	7 21	rises	8 15	4 39	7 15	rises	4 54	7 0	rises	7 33					
28	M	11 57 3	4 29	7 27	9 28	ev. 20	4 33	7 22	9 21	9 6	4 38	7 16	9 13	4 54	7 1	8 51	8 20					
29	T	11 57 11	4 28	7 28	10 15	1 7	4 32	7 23	10 8	9 53	4 38	7 17	10 1	4 54	7 1	9 40	9 7					
30	W	11 57 19	4 27	7 28	10 52	1 52	4 32	7 23	10 46	10 37	4 37	7 17	10 40	4 53	7 2	10 22	9 52					
31	T	11 57 27	4 26	7 29	11 21	2 37	4 31	7 24	11 16	11 19	4 37	7 18	11 11	4 53	7 2	10 57	10 37					

1877. JUNE. 30 Days.

MOON'S PHASES.		Boston.	New York.	Charleston.	Cincinnati.	Chicago.	S. Francisco.
	D	H M	H M	H M	H M	H M	H M
☽ LAST QUARTER. (*3d)	4	0 25 m	0 15 m	11 51 e	11 33 e	11 21 e	9 1 e
● NEW MOON.	11	9 48 m	9 36 m	9 12 m	8 54 m	8 42 m	6 22 m
☾ FIRST QUARTER, †17th	18	1 40 m	1 28 m	1 4 m	0 46 m	0 34 m	10 14 e
○ FULL MOON.	25	0 9 e	11 57 m	11 33 m	11 15 m	11 3 m	8 43 m

Day of Week.	Day of Month.	Shadow at the mon-mark.	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon.				NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Maryland, Indiana, and Illinois.				WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California.				CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana.				
		Morning.	RISES	SETS	RISES	High W. BOSTON.	RISES	SETS	RISES	High W. N. YORK.	RISES	SETS	RISES		RISES	SETS	RISES	High W. CH'ST'N.
		H M S	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M		H M	H M	H M	H M
F	1	11 57 36	4 26	7 30	11 45	3 20	4 31	7 24	11 42	ev. 5	4 36	7 19	11 38		4 52	7 3	11 27	11 20
S	2	11 57 45	4 25	7 31	morn	4 2	4 30	7 25	morn	0 49	4 36	7 19	morn		4 52	7 3	11 55	ev. 2
☽	3	11 57 55	4 25	7 32	0 7	4 49	4 30	7 26	0 5	1 36	4 36	7 20	0 2		4 52	7 4	morn	0 49
M	4	11 58 5	4 24	7 32	0 25	5 34	4 30	7 26	0 23	2 20	4 35	7 21	0 22		4 52	7 4	0 19	1 34
T	5	11 58 16	4 24	7 33	0 45	6 23	4 29	7 27	0 45	3 9	4 35	7 21	0 45		4 52	7 5	0 45	2 23
W	6	11 58 26	4 23	7 34	1 4	7 14	4 29	7 28	1 6	3 59	4 35	7 22	1 7		4 51	7 5	1 11	3 14
T	7	11 58 37	4 23	7 35	1 26	8 6	4 29	7 28	1 28	4 50	4 34	7 23	1 31		4 51	7 6	1 39	4 6
F	8	11 58 49	4 23	7 35	1 52	8 59	4 29	7 29	1 56	5 44	4 34	7 23	2 0		4 51	7 6	2 12	4 59
S	9	11 59 1	4 22	7 36	2 23	9 53	4 28	7 30	2 28	6 39	4 34	7 24	2 34		4 51	7 6	2 50	5 53
☾	10	11 59 12	4 22	7 36	3 5	10 49	4 28	7 30	3 11	7 33	4 34	7 24	3 18		4 51	7 7	3 37	6 49
M	11	11 59 25	4 22	7 37	sets	11 43	4 28	7 31	sets	8 25	4 34	7 25	sets		4 51	7 8	sets	7 43
T	12	11 59 37	4 22	7 37	9 13	morn	4 28	7 31	9 6	9 21	4 34	7 25	8 59		4 51	7 8	8 38	8 35
W	13	11 59 49	4 22	7 38	10 2	0 35	4 28	7 32	9 57	10 16	4 34	7 26	9 51		4 51	7 8	9 33	9 21
T	14	12 0 2	4 22	7 38	10 38	1 21	4 28	7 32	10 34	11 6	4 34	7 26	10 29		4 51	7 9	10 16	10 23
F	15	12 0 15	4 22	7 38	11 9	2 23	4 28	7 32	11 7	11 59	4 34	7 26	11 4		4 51	7 9	10 55	11 14
S	16	12 0 28	4 22	7 39	11 34	3 14	4 28	7 33	11 33	morn	4 34	7 27	11 32		4 51	7 9	11 27	morn
☽	17	12 0 41	4 22	7 39	11 57	4 4	4 28	7 33	11 57	0 51	4 34	7 27	11 57		4 51	7 10	11 57	0 4
M	18	12 0 54	4 22	7 39	morn	4 56	4 28	7 33	morn	1 43	4 34	7 28	morn		4 51	7 10	morn	0 56
T	19	12 1 1	4 22	7 39	0 20	5 51	4 28	7 34	0 21	2 37	4 34	7 28	0 22		4 52	7 10	0 27	1 51
W	20	12 1 20	4 22	7 39	0 40	6 47	4 29	7 34	0 43	3 33	4 34	7 28	0 46		4 52	7 11	0 54	2 47
T	21	12 1 33	4 22	7 39	1 8	7 44	4 29	7 34	1 12	4 29	4 34	7 28	1 16		4 52	7 11	1 29	3 44
F	22	12 1 45	4 23	7 39	1 39	8 44	4 29	7 34	1 44	5 29	4 35	7 28	1 50		4 52	7 11	2 6	4 44
S	23	12 1 58	4 23	7 40	2 16	9 38	4 29	7 34	2 23	6 24	4 35	7 29	2 29		4 52	7 11	2 49	5 38
☾	24	12 2 11	4 23	7 40	3 1	10 29	4 29	7 35	3 8	7 14	4 35	7 29	3 15		4 53	7 11	3 27	6 29
M	25	12 2 24	4 23	7 40	rises	11 20	4 30	7 35	rises	8 2	4 35	7 29	rises		4 53	7 11	rises	7 20
T	26	12 2 36	4 23	7 40	8 51	ev. 8	4 30	7 35	8 45	8 48	4 36	7 29	8 38		4 53	7 12	8 20	8 3
W	27	12 2 48	4 24	7 40	9 23	0 47	4 30	7 35	9 18	9 33	4 36	7 29	9 12		4 54	7 12	8 56	8 47
T	28	12 3 1	4 24	7 40	9 49	1 24	4 31	7 35	9 45	10 11	4 37	7 29	9 41		4 54	7 12	9 28	9 24
F	29	12 3 13	4 24	7 40	10 18	2 6	4 31	7 35	10 17	10 48	4 37	7 29	10 12		4 54	7 12	10 4	10 6
S	30	12 3 24	4 25	7 40	10 29	2 44	4 31	7 35	10 27	11 26	4 37	7 29	10 26		4 55	7 12	10 21	10 44

1877. JULY. 31 Days.

MOON'S PHASES.	D	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
Last Quarter	3	4 18 e	4 6 e	3 42 e	3 24 e	3 12 e	0 52 e
New Moon.	10	5 22 e	5 10 e	4 46 e	4 28 e	4 16 e	1 56 e
First Quarter . . .	17	8 28 m	8 16 m	7 52 m	7 34 m	7 22 m	5 2 m
Full Moon. .(*24th)	25	2 25 m	2 23 m	1 59 m	1 41 m	1 29 m	11 9 e

Day of Month.	Day of Week.	Shadow at the meridian. Morning. H M S	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. Rises H M	Sets H M	High W. (Boston.) H M	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. Rises H M	Sets H M	High W. N. York H M	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, California. Rises H M	Sets H M	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. Rises H M	Sets H M	High W. (Chas'n.) H M
1	M	12 3 26	4 25	7 40	10 48	4 32	7 35	10 47	4 38	7 29	10 47	4 55	7 12	10 46	11 21
2	T	12 3 47	4 26	7 40	11 8	4 32	7 35	11 8	4 38	7 29	11 30	4 55	7 12	11 12	12 0
3	W	12 4 9	4 27	7 40	11 26	4 33	7 34	11 28	4 39	7 29	11 9	4 56	7 12	11 37	ev. 43
4	T	12 4 9	4 27	7 39	11 49	4 33	7 34	11 53	4 39	7 28	11 56	4 56	7 11	morn	1 31
5	F	12 4 19	4 28	7 39	morn	4 34	7 34	morn	4 40	7 28	morn	4 57	7 11	0 7	2 25
6	S	12 4 29	4 29	7 39	0 19	4 35	7 34	0 23	4 41	7 28	1 7	4 58	7 11	0 43	3 25
7	S	12 4 39	4 29	7 39	0 55	4 35	7 33	1 1	4 41	7 28	1 54	4 58	7 11	1 25	4 30
8	M	12 4 49	4 30	7 38	1 40	4 36	7 33	1 47	4 42	7 27	2 55	4 58	7 11	2 15	5 34
9	T	12 4 58	4 31	7 38	2 40	4 37	7 33	2 47	4 42	7 27	4 4	4 59	7 11	3 16	6 36
10	W	12 5 6	4 32	7 38	3 50	4 37	7 32	3 54	4 43	7 27	4 4	4 59	7 10	4 25	7 32
11	T	12 5 14	4 33	7 37	sets	4 38	7 32	sets	4 44	7 26	sets	5 0	7 10	sets	8 25
12	F	12 5 22	4 33	7 37	9 8	4 39	7 31	9 5	4 44	7 26	9 1	5 0	7 10	8 51	9 16
13	S	12 5 29	4 34	7 36	9 36	4 39	7 31	9 34	4 45	7 26	9 32	5 1	7 9	9 26	10 5
14	S	12 5 36	4 35	7 36	10 0	4 40	7 30	10 0	4 46	7 25	9 59	5 2	7 9	9 58	10 48
15	M	12 5 42	4 36	7 35	10 22	4 40	7 30	10 23	4 46	7 24	10 24	5 2	7 9	10 27	11 34
16	T	12 5 48	4 37	7 34	10 47	4 41	7 29	10 49	4 47	7 24	10 52	5 3	7 8	10 57	morn
17	W	12 5 53	4 37	7 34	11 13	4 42	7 29	11 16	4 48	7 23	11 20	5 3	7 8	11 32	0 24
18	T	12 5 58	4 38	7 33	11 40	4 43	7 28	11 45	4 49	7 23	11 50	5 4	7 7	morn	1 17
19	F	12 6 2	4 39	7 32	morn	4 44	7 27	morn	4 50	7 22	morn	5 5	7 7	0 6	2 18
20	S	12 6 5	4 40	7 32	0 15	4 45	7 26	0 21	4 51	7 21	0 27	5 5	7 6	0 46	3 20
21	S	12 6 8	4 41	7 31	0 58	4 46	7 26	1 4	4 52	7 21	1 12	5 6	7 6	1 32	4 23
22	M	12 6 11	4 42	7 30	1 49	4 47	7 25	1 56	4 52	7 20	2 3	5 6	7 5	2 25	5 20
23	T	12 6 12	4 43	7 29	2 46	4 48	7 24	2 53	4 53	7 19	3 0	5 7	7 5	3 21	6 13
24	W	12 6 14	4 44	7 28	rises	4 48	7 23	rises	4 54	7 18	rises	5 8	7 4	rises	7 1
25	T	12 6 14	4 45	7 27	7 53	4 49	7 23	7 48	4 55	7 18	7 44	5 8	7 4	7 30	7 43
26	F	12 6 14	4 46	7 26	ev. 20	4 50	7 22	8 13	4 56	7 17	8 9	5 9	7 3	7 59	8 20
27	S	12 6 13	4 47	7 25	8 36	4 51	7 21	8 34	4 57	7 16	8 32	5 10	7 2	8 25	8 57
28	S	12 6 12	4 48	7 24	8 52	4 52	7 20	8 52	4 58	7 15	8 51	5 10	7 1	8 48	9 31
29	M	12 6 11	4 49	7 23	9 10	4 53	7 19	9 11	4 58	7 14	9 11	5 11	7 1	9 12	10 5
30	T	12 6 8	4 50	7 22	9 31	4 54	7 18	9 32	4 59	7 13	9 34	5 12	7 0	9 39	10 42
31	W	12 6 5	4 51	7 21	9 53	4 55	7 17	9 55	4 59	7 12	9 58	5 12	6 59	10 7	11 19

1877. AUGUST. 31 Days.

Day of Month.	Day of Week.	Shadow at the noon-mark.	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon.				NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois.				WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California.			CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana.				MOON'S PHASES.						
		Afternoon.	RISES	SETS	RISES	High W. BOSTON.	RISES	SETS	RISES	High W. N. YORK.	RISES	SETS	RISES	RISES	SETS	RISES	High W. CH'ST'N.	D	H M	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
		H M S	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M								
1	W	12 6 2	4 52	7 20	10 17	4 1	4 56	7 16	10 21	ev. 48	5 0	7 11	10 25	5 13	6 58	10 38	ev. 1	Last Quarter . . .	2	5 37 m	5 25 m	5 1 m	4 43 m	4 31 m	2 11 m
2	T	12 5 58	4 53	7 19	10 48	4 52	4 57	7 14	10 53	1 39	5 1	7 10	10 59	5 14	6 58	11 15	0 52	New Moon . . (8th)	9	0 34 m	0 21 m	11 57 e^3	11 39 e^3	11 27 e^3	9 7 e^3
3	F	12 5 53	4 54	7 18	11 28	5 51	4 58	7 13	11 34	2 37	5 2	7 9	11 41	5 15	6 57	morn	1 51	First Quarter . . .	15	5 44 e	5 32 e	5 8 e	4 50 e	4 38 e	2 18 e
4	S	12 5 47	4 55	7 16	morn	7 0	4 59	7 12	morn	3 45	5 3	7 8	morn	5 15	6 56	0 1	3 0	Full Moon.	23	6 26 e	6 14 e	5 50 e	5 32 e	5 20 e	3 0 e
5	S	12 5 42	4 56	7 15	0 20	8 12	5 0	7 11	0 27	4 56	5 4	7 7	0 35	5 16	6 55	0 56	4 12	Last Quarter . . .	31	4 31 e	4 19 e	3 55 e	3 37 e	3 25 e	1 5 e
6	M	12 5 35	4 57	7 14	1 25	9 21	5 1	7 10	1 31	6 7	5 5	7 6	1 39	5 17	6 54	2 0	5 21								
7	T	12 5 28	4 58	7 13	2 41	10 25	5 2	7 9	2 47	7 11	5 6	7 5	2 53	5 17	6 53	3 12	6 25								
8	W	12 5 20	4 59	7 11	4 1	11 21	5 3	7 7	4 6	8 3	5 6	7 4	4 12	5 18	6 52	4 27	7 21								
9	T	12 5 12	5 0	7 10	sets	morn	5 4	7 6	sets	8 53	5 7	7 2	sets	5 19	6 51	sets	8 8								
10	F	12 5 4	5 1	7 9	8 3	0 8	5 5	7 5	8 1	9 38	5 8	7 1	8 0	5 19	6 50	7 57	8 52								
11	S	12 4 54	5 2	7 8	8 25	0 52	5 6	7 4	8 25	10 22	5 9	7 0	8 26	5 20	6 49	8 27	9 37								
12	S	12 4 44	5 3	7 7	8 49	1 37	5 7	7 2	8 51	11 3	5 10	6 59	8 43	5 21	6 48	8 59	10 20								
13	M	12 4 34	5 4	7 5	9 12	2 20	5 8	7 1	9 16	11 50	5 11	6 58	9 19	5 21	6 47	9 30	11 5								
14	T	12 4 23	5 5	7 4	9 41	3 5	5 9	7 0	9 46	morn	5 12	6 56	9 51	5 22	6 46	10 5	11 54								
15	W	12 4 11	5 6	7 2	10 14	3 54	5 10	6 58	10 20	0 40	5 13	6 54	10 26	5 23	6 45	10 44	morn								
16	T	12 3 59	5 7	7 0	10 55	4 51	5 11	6 57	11 2	1 38	5 14	6 53	11 9	5 23	6 44	11 30	0 51								
17	F	12 3 46	5 8	6 59	11 44	5 52	5 12	6 55	11 51	2 38	5 15	6 52	11 58	5 24	6 43	morn	1 52								
18	S	12 3 33	5 9	6 57	morn	7 0	5 13	6 54	morn	3 45	5 16	6 51	morn	5 25	6 42	0 20	3 1								
19	S	12 3 19	5 10	6 55	0 39	8 1	5 14	6 53	0 46	4 46	5 17	6 50	0 53	5 25	6 41	1 14	4 1								
20	M	12 3 5	5 11	6 54	1 40	9 1	5 15	6 51	1 47	5 46	5 17	6 48	1 53	5 26	6 40	2 13	5 1								
21	T	12 2 51	5 12	6 52	2 45	9 51	5 16	6 50	2 50	6 37	5 18	6 47	2 56	5 27	6 38	3 12	5 51								
22	W	12 2 35	5 14	6 51	rises	10 35	5 17	6 48	rises	7 20	5 19	6 45	rises	5 28	6 37	rises	6 35								
23	T	12 2 20	5 15	6 50	6 41	11 14	5 17	6 47	6 39	7 56	5 20	6 44	6 36	5 28	6 36	6 29	7 14								
24	F	12 2 4	5 16	6 48	7 0	11 48	5 18	6 45	6 59	8 31	5 21	6 43	6 58	5 29	6 35	6 54	7 48								
25	S	12 1 47	5 17	6 47	7 18	ev. 20	5 19	6 44	7 18	9 7	5 22	6 41	7 18	5 30	6 34	7 18	8 20								
26	S	12 1 31	5 18	6 45	7 37	0 55	5 20	6 42	7 38	9 45	5 23	6 40	7 39	5 30	6 32	7 43	8 55								
27	M	12 1 13	5 19	6 44	7 57	1 29	5 21	6 41	8 0	10 14	5 24	6 38	8 2	5 31	6 31	8 10	9 29								
28	T	12 0 56	5 20	6 42	8 30	2 6	5 22	6 39	8 34	10 48	5 25	6 37	8 37	5 32	6 30	8 49	10 6								
29	W	12 0 38	5 21	6 40	8 50	2 47	5 23	6 37	8 55	11 29	5 26	6 35	9 0	5 32	6 29	9 15	10 47								
30	T	12 0 20	5 22	6 39	9 23	3 32	5 24	6 36	9 29	ev. 18	5 26	6 34	9 36	5 33	6 28	9 54	11 32								
31	F	12 0 1	5 23	6 37	10 10	4 26	5 25	6 34	10 16	1 13	5 27	6 32	10 24	5 33	6 27	10 44	ev. 26								

1877. SEPTEMBER. 30 Days.

MOON'S PHASES.	D	Boston.	New York.	Charleston.	Cincinnati.	Chicago.	S. Francisco.
		H M	H M	H M	H M	H M	H M
New Moon.	7	8 16 m	8 4 m	7 40 m	7 22 m	7 10 m	4 50 m
First Quarter . . .	14	6 24 m	6 12 m	5 48 m	5 30 m	5 18 m	2 58 m
Full Moon.	22	10 50 m	10 38 m	10 14 m	9 56 m	9 44 m	7 24 m
Last Quarter(*29th)	30	1 36 m	1 24 m	1 0 m	0 42 m	0 30 m	10 10 e

Day of Week.	Day of Month.	Shadow at the mon-mark. Morning. H M S	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. Lines H M	Sets H M	Rises H M	High W. BOSTON. H M	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. Rises H M	Sets H M	Rises H M	High W. NAVORK. H M	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. Rises H M	Sets H M	Rises H M	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. Rises H M	Sets H M	Rises H M	High W. CH'STN. H M
S	1	11 59 43	5 24	6 35	11 7	5 32	5 26	6 33	11 14	2 18	5 28	6 31	11 21	5 34	6 25	11 43	1 32
S	2	11 59 23	5 26	6 33	morn	6 45	5 27	6 31	morn	3 31	5 29	6 29	morn	5 35	6 24	morn	2 45
M	3	11 59 4	5 27	6 32	0 6	7 59	5 28	6 29	0 12	4 44	5 30	6 28	0 20	5 35	6 22	0 43	3 59
T	4	11 58 45	5 28	6 30	1 31	9 7	5 29	6 28	1 37	5 57	5 31	6 26	1 43	5 36	6 21	2 0	5 7
W	5	11 58 25	5 29	6 28	2 52	10 5	5 30	6 26	2 56	6 51	5 32	6 25	3 0	5 37	6 20	3 13	6 5
T	6	11 58 5	5 30	6 26	4 13	10 57	5 31	6 25	4 15	7 40	5 33	6 23	4 18	5 37	6 19	4 27	6 57
F	7	11 57 45	5 31	6 25	sets	11 43	5 32	6 23	sets	8 25	5 34	6 22	sets	5 38	6 17	sets	7 43
S	8	11 57 24	5 32	6 23	6 49	morn	5 33	6 21	6 50	9 11	5 35	6 20	6 52	5 39	6 16	6 55	8 24
S	9	11 57 4	5 33	6 21	7 13	0 24	5 34	6 20	7 16	9 54	5 35	6 18	7 18	5 39	6 15	7 27	9 8
M	10	11 56 43	5 35	6 19	7 40	1 8	5 35	6 18	7 44	10 33	5 36	6 16	7 49	5 40	6 13	8 1	9 51
T	11	11 56 22	5 36	6 17	8 13	1 51	5 36	6 16	8 18	11 23	5 37	6 15	8 24	5 41	6 12	8 40	10 41
W	12	11 56 1	5 37	6 15	8 51	2 41	5 37	6 15	8 57	morn	5 38	6 13	9 4	5 41	6 11	9 24	11 31
T	13	11 55 40	5 38	6 14	9 37	3 31	5 38	6 13	9 44	0 17	5 39	6 11	9 52	5 42	6 9	10 13	morn
F	14	11 55 19	5 39	6 12	10 32	4 28	5 39	6 11	10 39	1 15	5 40	6 10	10 47	5 43	6 8	11 8	0 28
S	15	11 54 58	5 40	6 10	11 33	5 31	5 40	6 9	11 39	2 17	5 41	6 8	11 46	5 43	6 7	morn	1 31
S	16	11 54 37	5 41	6 8	morn	6 36	5 41	6 8	morn	3 22	5 42	6 6	morn	5 44	6 5	0 6	2 36
M	17	11 54 16	5 42	6 6	0 36	7 36	5 42	6 6	0 41	4 21	5 43	6 5	0 47	5 45	6 4	1 5	3 36
T	18	11 53 55	5 43	6 5	1 40	8 31	5 43	6 4	1 44	5 15	5 44	6 3	1 49	5 45	6 2	2 4	4 31
W	19	11 53 33	5 44	6 3	2 44	9 18	5 44	6 3	2 47	6 4	5 44	6 2	2 51	5 46	6 1	3 1	5 18
T	20	11 53 12	5 45	6 1	3 45	9 59	5 45	6 1	3 47	6 45	5 45	6 0	3 49	5 46	6 0	3 56	5 59
F	21	11 52 51	5 46	6 0	4 46	10 38	5 46	5 59	4 47	7 23	5 46	6 1	4 48	5 47	5 58	4 51	6 38
S	22	11 52 30	5 47	5 58	5 46	11 14	5 47	5 58	rises	7 56	5 47	5 59	rises	5 48	5 57	rises	7 14
S	23	11 52 9	5 48	5 56	6 3	11 47	5 48	5 56	6 5	8 30	5 48	5 58	6 7	5 48	5 56	6 3	7 47
M	24	11 51 49	5 50	5 55	6 27	ev. 20	5 49	5 54	6 30	9 7	5 49	5 56	6 33	5 49	5 54	6 44	8 20
T	25	11 51 28	5 51	5 53	6 52	1 0	5 50	5 53	6 57	9 46	5 50	5 54	7 1	5 50	5 53	7 16	9 0
W	26	11 51 8	5 52	5 51	7 25	1 39	5 51	5 52	7 30	10 23	5 50	5 53	7 36	5 50	5 52	7 54	9 39
T	27	11 50 47	5 53	5 49	8 7	2 25	5 52	5 50	8 14	11 8	5 52	5 51	8 20	5 51	5 50	8 41	10 25
F	28	11 50 27	5 54	5 47	8 59	2 16	5 53	5 48	9 6	ev. 1	5 53	5 50	9 14	5 52	5 49	9 35	11 16
S	29	11 50 8	5 55	5 46	10 2	4 16	5 54	5 46	10 8	1 3	5 54	5 48	10 16	5 52	5 48	10 36	ev. 16
S	30	11 49 48	5 56	5 44	11 12	5 24	5 54	5 44	11 18	2 10	5 55	5 46	10 25	5 53	5 46	11 48	1 24

1877. OCTOBER. 31 Days.

MOON'S PHASES.	D	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco. H M
New Moon.	6	5 14 e	5 2 e	4 38 e	4 20 e	4 8 e	1 48 e
First Quarter. . .	13	10 58 e	10 46 e	10 22 e	10 4 e	9 52 e	7 32 e
Full Moon. .(*21st)	22	2 46 m	2 34 m	2 11 m	1 53 m	1 41 m	11 21 e
Last Quarter. . . .	29	9 37 m	9 25 m	9 1 m	8 43 m	8 31 m	6 11 m

Day of Month.	Day of Week.	Shadow at the noon-mark.	Morning.	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon.				NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois.				WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California.				CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana.			
				Sun rises	Sun sets	Moon rises	High W. Boston.	Sun rises	Sun sets	Moon rises	High W. New York	Sun rises	Sun sets	Moon rises		Sun rises	Sun sets	Moon rises	High W. Charles'n.
		H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M		H M	H M	H M	H M
1	M	11 49 27	5 57	5 56	5 43	morn	3 18	5 55	5 43	morn	2 49	6 4	5 27	morn		5 54	5 45	morn	2 32
2	T	11 49 11	5 58	5 57	5 41	0 34	4 27	5 56	5 42	0 39	3 43	6 5	5 26	0 53		5 54	5 44	0 54	3 42
3	W	11 48 52	5 59	5 58	5 39	1 49	5 30	5 57	5 40	1 48	4 39	6 6	5 24	2 0		5 55	5 42	2	4 45
4	T	11 48 34	6 1	5 59	5 38	3 6	6 25	5 58	5 39	3 8	5 33	6 7	5 22	3 14		5 56	5 41	3 14	5 39
5	F	11 48 16	6 2	6 0	5 36	4 21	7 13	5 59	5 37	4 22	6 29	6 8	5 20	4 23		5 57	5 40	4 23	6 29
6	S	11 47 59	6 3	6 1	5 35	5 38	7 57	6 0	5 35	5 37	7 15	6 9	5 18	5 33		5 57	5 39	5 33	7 15
7	S	11 47 42	6 4	6 2	5 33	sets	8 41	6 1	5 34	sets	7 56	6 10	5 16	sets		5 58	5 37	sets	7 56
8	M	11 47 26	6 5	6 3	5 31	6 13	9 28	6 2	5 32	6 18	8 42	6 11	5 14	6 32		5 59	5 36	6 32	8 42
9	T	11 47 9	6 6	6 4	5 30	7 10	10 14	6 3	5 31	6 56	9 29	6 12	5 13	7 15		6 0	5 35	7 15	9 29
10	W	11 46 54	6 8	6 5	5 28	7 39	11 2	6 4	5 29	7 46	10 19	6 13	5 11	7 58		6 0	5 33	8 7	10 19
11	T	11 46 39	6 9	6 7	5 27	8 29	11 57	6 5	5 28	8 37	11 12	6 14	5 9	8 58		6 1	5 32	8 58	11 12
12	F	11 46 24	6 10	6 8	5 25	9 28	morn	6 6	5 26	9 35		6 15	5 8	9 56	morn	6 2	5 31	9 56	morn
13	S	11 46 10	6 11	6 9	5 23	10 31	0 53	6 7	5 25	10 37	0 6	6 16	5 6	10 55	0 6	6 3	5 29	10 55	0 6
14	S	11 45 56	6 12	6 10	5 22	11 34	1 50	6 8	5 23	11 40	1 3	6 17	5 4	11 55	1 3	6 4	5 27	morn	1 3
15	M	11 45 43	6 13	6 11	5 20	morn	2 49	6 9	5 22	morn	2 3	6 18	5 3	11 55	1	6 5	5 26	0 53	2 3
16	T	11 45 31	6 14	6 12	5 19	0 37	3 43	6 10	5 21	0 41	2 58	6 19	5 1	morn	2	6 5	5 25	1 49	2 58
17	W	11 45 19	6 15	6 13	5 17	1 38	4 33	6 11	5 19	1 40	3 48	6 20	5 0	0 53	2 58	6 6	5 25	2 44	3 48
18	T	11 45 7	6 17	6 14	5 16	2 38	5 19	6 12	5 18	2 39	4 34	6 21	4 59	1 49	3 48	6 7	5 24	3 39	4 34
19	F	11 44 56	6 18	6 15	5 14	3 38	6 3	6 13	5 16	3 38	5 17	6 22	4 58	2 44	4 34	6 8	5 23	4 35	5 17
20	S	11 44 46	6 19	6 16	5 13	4 39	6 43	6 14	5 15	4 38	5 57	6 23	4 56	3 39	5 17	6 9	5 22	5 31	5 57
21	S	11 44 37	6 20	6 17	5 12	5 40	7 22	6 15	5 14	5 38	6 37	6 24	4 55	4 35	5 57	6 10	5 21	6 27	6 37
22	M	11 44 28	6 21	6 18	5 10	rises	7 58	6 16	5 13	rises	7 16	6 25	4 53	5 31	6 37	6 11	5 19	rises	7 16
23	T	11 44 20	6 22	6 19	5 9	5 32	8 39	6 18	5 11	6 39	7 56	6 26	4 52	6 27	7 16	6 12	5 18	5 54	7 56
24	W	11 44 12	6 23	6 20	5 7	6 13	9 22	6 19	5 10	7 46	8 36	6 27	4 51	7 32	7 56	6 13	5 16	6 39	8 36
25	T	11 44 6	6 25	6 21	5 6	7 4	10 11	6 20	5 9	7 11	9 25	6 28	4 49	7 32	8 36	6 14	5 15	7 32	9 25
26	F	11 43 59	6 26	6 22	5 4	8 2	11 54	6 21	5 8	8 9	10 16	6 29	4 48	8 30	9 25	6 15	5 13	8 30	10 16
27	S	11 43 54	6 27	6 23	5 3	9 10	ev. 54	6 22	5 6	9 17	11 9	6 30	4 47	9 36	10 16	6 16	5 12	9 36	11 9
28	S	11 43 50	6 28	6 24	5 2	10 21	ev. 54	6 23	5 5	10 27	11 54	6 31	4 45	10 43	ev. 7	6 17	5 10	10 43	ev. 7
29	M	11 43 46	6 29	6 25	5 1	11 34	1 56	6 24	5 4	11 39	1 10	6 32	4 44	11 51	1 10	6 18	5 9	11 51	1 10
30	T	11 43 43	6 30	6 26	4 59	morn	2 59	6 25	5 2	morn	2 13	6 33	4 43	morn	2 13	6 19	5 8	morn	2 13
31	W	11 43 41	6 32	6 27	4 58	0 49	4 2	6 26	5 1	0 51	3 17	6 34	4 41	0 59	3 17	6 20	5 6	0 59	3 17

1877. NOVEMBER. 30 Days.

Day of Month.	Day of Week.	Shadow at the noon-mark. Morning.	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. RISES	SETS	RISES	High W. BOSTON.	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. RISES	SETS	RISES	High W. N. YORK.	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. RISES	SETS	RISES	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. RISES	SETS	RISES	High W. CH'ST'N.
		H M S	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M
1	T	11 43 40	6 33	4 54	2 0	8 14	6 30	4 57	2 1	4 58	6 27	5 0	2 2	6 18	5 9	2 5	4 14
2	F	11 43 39	6 34	4 53	3 15	9 8	6 31	4 56	3 15	5 53	6 28	4 59	3 14	6 19	5 9	3 13	5 8
3	S	11 43 40	6 36	4 51	4 31	9 58	6 32	4 54	4 29	6 44	6 29	4 58	4 27	6 19	5 8	4 21	5 58
4	S	11 43 41	6 37	4 50	5 48	10 49	6 34	4 53	5 45	7 33	6 31	4 57	5 41	6 20	5 7	5 31	6 49
5	M	11 43 43	6 38	4 49	7 4	11 34	6 35	4 52	6 59	8 16	6 32	4 56	6 54	6 21	5 6	6 40	7 34
6	T	11 43 46	6 39	4 48	sets	morn	6 36	4 51	sets	9 7	6 33	4 55	sets	6 22	5 5	sets	8 20
7	W	11 43 50	6 41	4 47	6 8	0 20	6 37	4 50	6 15	9 58	6 34	4 54	6 22	6 23	5 4	6 43	9 12
8	T	11 43 54	6 42	4 44	7 7	1 12	6 38	4 49	7 13	10 44	6 35	4 53	7 21	6 24	5 4	7 41	10 2
9	F	11 43 59	6 43	4 43	8 10	2 2	6 40	4 48	8 16	11 34	6 36	4 52	8 23	6 25	5 3	8 42	10 50
10	S	11 44 6	6 44	4 43	9 16	2 50	6 41	4 47	9 21	morn	6 37	4 51	9 27	6 26	5 2	9 43	11 39
11	S	11 44 13	6 46	4 42	10 21	3 39	6 42	4 46	10 25	0 25	6 38	4 50	10 29	6 27	5 2	10 42	morn
12	M	11 44 21	6 47	4 41	11 24	4 28	6 43	4 45	11 27	1 15	6 39	4 49	11 30	6 27	5 1	11 40	0 28
13	T	11 44 29	6 48	4 40	morn	5 17	6 44	4 44	morn	2 3	6 40	4 48	morn	6 28	5 0	morn	1 17
14	W	11 44 39	6 49	4 39	0 24	6 7	6 46	4 43	0 26	2 53	6 41	4 47	0 28	6 29	5 0	0 34	2 7
15	T	11 44 49	6 51	4 39	1 26	6 57	6 47	4 42	1 27	3 42	6 43	4 47	1 28	6 30	4 59	1 30	2 57
16	F	11 45 1	6 52	4 38	2 27	7 42	6 48	4 41	2 26	4 27	6 44	4 46	2 26	6 31	4 59	2 24	3 42
17	S	11 45 13	6 53	4 37	3 27	8 30	6 49	4 40	3 25	5 15	6 45	4 45	3 23	6 32	4 58	3 18	4 30
18	S	11 45 25	6 54	4 36	4 31	9 15	6 50	4 39	4 28	6 1	6 46	4 44	4 25	6 33	4 58	4 16	5 15
19	M	11 45 39	6 56	4 35	5 37	10 0	6 51	4 39	5 33	6 46	6 47	4 44	5 29	6 34	4 57	5 16	6 0
20	T	11 45 53	6 57	4 34	6 46	10 49	6 53	4 38	6 41	7 33	6 48	4 43	6 35	6 35	4 57	6 19	6 49
21	W	11 46 9	6 58	4 34	rises	11 34	6 54	4 38	rises	8 16	6 49	4 43	rises	6 36	4 56	rises	7 34
22	T	11 46 25	6 59	4 33	5 49	ev. 22	6 55	4 37	5 56	9 9	6 50	4 42	6 3	6 37	4 56	6 24	8 22
23	F	11 46 42	7 0	4 32	6 54	1 15	6 56	4 36	7 0	10 1	6 51	4 42	7 7	6 38	4 56	7 27	9 15
24	S	11 46 59	7 2	4 32	8 7	2 8	6 57	4 36	8 13	10 50	6 52	4 41	8 18	6 38	4 55	8 35	10 8
25	S	11 47 18	7 3	4 31	9 23	3 0	6 58	4 35	9 27	11 45	6 53	4 40	9 31	6 39	4 55	9 44	11 0
26	M	11 47 37	7 4	4 31	10 37	3 54	6 59	4 35	10 40	ev. 40	6 55	4 40	10 43	6 40	4 55	10 51	11 54
27	T	11 47 57	7 5	4 30	11 51	4 50	7 0	4 35	11 52	1 37	6 56	4 40	11 53	6 41	4 55	11 58	ev. 50
28	W	11 48 17	7 6	4 30	morn	5 47	7 2	4 34	morn	2 33	6 57	4 40	morn	6 42	4 54	morn	1 47
29	T	11 48 39	7 7	4 30	1 2	6 43	7 3	4 34	1 2	3 29	6 58	4 39	1 2	6 43	4 54	1 2	2 43
30	F	11 49 1	7 8	4 29	2 15	7 41	7 4	4 34	2 14	4 26	6 59	4 39	2 12	6 44	4 54	2 7	3 41

MOON'S PHASES.

	H	M
New Moon	5	20
First Quarter	12	7
Full Moon	20	5
Last Quarter	27	5

Boston.

H	M	
4	4	m
7	0	e
5	35	e
5	22	e

New York.

H	M	
3	52	m
6	48	e
5	23	e
5	10	e

Charleston.

H	M	
3	25	m
6	24	e
4	59	e
4	46	e

Cincinnati.

H	M	
3	10	m
6	6	e
4	41	e
4	28	e

Chicago.

H	M	
2	58	m
5	54	e
4	29	e
4	16	e

S. Francisco.

H	M	
0	38	m
3	34	e
2	9	e
1	56	e

1877. DECEMBER. 31 Days.

MOON'S PHASES.

	D	Boston. H M	New York. H M	Charleston. H M	Cincinnati. H M	Chicago. H M	S. Francisco H M
New Moon	4	5 20 e	5 8 e	4 44 e	4 26 e	4 14 e	1 54 e
First Quarter	12	4 50 e	4 38 e	4 14 e	3 56 e	3 44 e	1 24 e
Full Moon	20	7 7 m	6 55 m	6 31 m	6 13 m	6 2 m	3 41 m
Last Quarter (*26th)	27	1 36 m	1 24 m	1 0 m	0 42 m	0 30 m	*10 10 e

Day of Week.	Day of Month.	Shadow at the moon-mark. Morning.	NEW YORK CITY: Philadelphia, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, and Illinois. Rises	Sets	High W. N.YORK	WASHINGTON: Maryland, Virginia, Kentucky, Missouri, and California. Rises	Sets	High W.	CHARLESTON: North Carolina, Tennessee, Georgia, Alabama, Mississippi, and Louisiana. Rises	Sets	High W. CHSTN.	BOSTON: New England, New York State, Michigan, Wisconsin, Iowa, and Oregon. Rises	Sets	High W. BOSTON.
		D M S	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M	H M
S	1	11 49 24	7 10	4 28	5 25	7 5	4 34	3 26	6 45	4 54	4 40	7 10	4 28	8 40
M	2	11 49 43	7 11	4 28	6 19	7 6	4 33	4 30	6 45	4 54	4 40	7 11	4 28	9 33
T	3	11 50 11	7 12	4 28	7 11	7 7	4 33	5 32	6 46	4 54	4 40	7 11	4 28	10 26
W	4	11 50 36	7 13	4 28	7 7	7 8	4 33	7 3	6 47	4 54	4 40	7 12	4 28	11 19
T	5	11 51 1	7 14	4 28	sets	7 9	4 32	sets	6 48	4 54	sets	7 13	4 28	sets
F	6	11 51 26	7 15	4 28	5 53	7 10	4 32	6 0	6 49	4 54	6 7	7 14	4 28	5 53
S	7	11 51 53	7 16	4 28	8 5	7 11	4 32	7 5	6 49	4 54	7 11	7 15	4 28	8 5
S	8	11 52 19	7 17	4 28	9 5	7 12	4 32	8 10	6 50	4 54	8 15	7 16	4 28	9 19
M	9	11 52 46	7 18	4 28	9 19	7 13	4 32	9 23	6 51	4 54	9 27	7 17	4 28	10 13
T	10	11 53 14	7 19	4 28	10 13	7 14	4 32	10 16	morn	7 8	4 38	10 18	4 28	morn
W	11	11 53 42	7 20	4 28	11 13	7 15	4 32	11 14	0 32	7 9	4 38	11 15	4 28	11 13
T	12	11 54 10	7 21	4 28	morn	7 15	4 32	morn	1 15	7 9	4 38	morn	4 28	morn
F	13	11 54 38	7 22	4 28	0 13	7 16	4 33	0 13	2 10	7 10	4 39	0 13	4 28	0 13
S	14	11 55 7	7 23	4 28	1 11	7 16	4 33	1 12	3 3	7 11	4 39	1 11	4 28	1 12
S	15	11 55 36	7 24	4 29	2 15	7 17	4 33	2 12	3 47	7 12	4 39	2 10	4 28	2 12
M	16	11 56 6	7 25	4 29	3 20	7 18	4 33	3 16	4 26	7 12	4 40	3 13	4 28	3 16
T	17	11 56 35	7 26	4 29	4 26	7 18	4 33	4 21	5 20	7 13	4 40	4 16	4 28	4 21
W	18	11 57 5	7 26	4 29	5 35	7 19	4 34	5 29	6 17	7 13	4 40	5 20	4 28	5 29
T	19	11 57 34	7 26	4 30	6 42	7 20	4 34	6 35	7 11	7 14	4 41	6 28	4 28	6 35
F	20	11 58 4	7 27	4 30	10 26	7 20	4 35	10 58	8 59	7 15	4 41	7 33	4 28	10 58
S	21	11 58 34	7 27	4 31	11 20	7 21	4 35	rises	8 59	7 15	4 42	8 33	4 28	rises
S	22	11 59 4	7 28	4 31	rises	7 21	4 36	7 11	9 51	7 16	4 42	7 17	4 28	rises
M	23	11 59 34	7 28	4 32	5 52	7 22	4 37	8 29	10 38	7 16	4 43	8 33	4 28	7 20
T	24	12 0 4	7 28	4 32	ev. 13	7 22	4 37	9 43	11 27	7 17	4 43	9 44	4 28	8 13
W	25	12 0 34	7 28	4 33	6 1	7 23	4 38	10 55	ev. 17	7 17	4 44	10 55	4 28	9 5
T	26	12 1 3	7 29	4 33	morn	7 23	4 39	morn	1 9	7 17	4 44	morn	4 28	9 56
F	27	12 1 33	7 29	4 34	0 6	7 23	4 39	0 5	2 0	7 18	4 45	0 4	4 28	10 45
S	28	12 2 3	7 29	4 34	1 19	7 23	4 40	1 16	2 37	7 18	4 46	1 14	4 28	ev. 22
S	29	12 2 32	7 30	4 35	2 32	7 24	4 40	2 28	3 59	7 19	4 47	2 24	4 28	11 27
M	30	12 3 1	7 30	4 36	3 45	7 24	4 41	3 40	4 59	7 19	4 47	3 35	4 28	morn
T	31	12 3 30	7 30	4 37	4 57	7 24	4 42	4 51	6 1	7 19	4 48	4 45	4 28	0 1

Praise Waiteth for Thee.

THEY stand, the regal mountains, with crowns of spotless snow,
Forever changeless, grand, sublime, while ages come and go!
Each day the morning cometh in through the eastern gate,
With trailing robes of pink and gold; yet still they watch and wait
For that more glorious morning, till that glad message sounds—
"Lift up your heads, ye gates of God, the King of glory comes!"

And so they stand o'erlooking earth's trouble, pain, and sin,
And wait the call to lift their gates and let the King come in.
O calm, majestic mountains! O everlasting hills!
Beside your patient watch, how small seem all life's joys and ills!

Beyond the restless ocean, mysterious, vast, and dim,
Whose changeful waves forever chant their grand, triumphal hymn.
Now tempest lashed and raging, with deep and hungry roar,
The foam-capped billows dash themselves in anger on the shore.

Now wavelets ripple gently along the quiet strand,
While summer's sunshine broodeth soft o'er all the sea and land.
O mighty waves! as chainless, as free as birds that skim!
There's One who rules the stormy sea—thy song is all of him.

And so in the shadowy forest the birds sing loud and sweet,
From swaying boughs where breezes rock their little broods to sleep.
The golden cups of the cowslip spring from the mossy sod,
And the sweet blue violet blooms alone, just for itself and God.

It is aye the same old lesson, from mountain, wood, and sea,
The old, old story, ever new, and wondrous grand to me—
Of One who holds the waters in the hollow of his hand,
Whose presence shone from mountain-top in that far eastern land.

"The groves are God's own temples," the wild birds sing his praise,
And every flower in the forest dim its humble tribute pays;
For God loves all his creatures, however weak and small;
His grandest works give praise to him, for he is Lord of all.

Ponder Well.

"A PERSON converted in youth," says John Angell James, "is like the sun rising on a summer's morning to shine through the long bright day. But a person converted late in life is like the evening star, a lovely object of Christian contemplation, but not appearing till the day is closing, and then but for a little while."

A PREACHER in Holland called the Sabbath "God's dyke, shutting out an ocean of evils."

Attention to Prayer.

A PIOUS Jew, while on a journey, perceived that the hour of the evening prayer had arrived. He stopped and prayed to God. Lost in his meditation, his heart lifted heavenward, he did not reply to a nobleman, who, passing that way, stood still and saluted him. Enraged at the Jew's apparent rudeness, the nobleman waited until he had finished his prayers, and then angrily addressed him:—

"Wretch! why didst thou not return my salutation? I have a good mind to punish thee for thy incivility."

"Friend," the Hebrew replied, "if thou wert standing before thy king and speaking to him, and one of thy friends should pass thee and salute thee, wouldst thou leave abruptly the king and turn to thy friend?"

"Certainly not; I would not dare do such a thing."

"Now," said the Hebrew, "judge if I have done right or wrong in not returning thy salutation. I stood before the King of kings, the Almighty Creator of the world, offering to him my prayer of supplication; how dared I leave him and turn to thee?"

"Thou hast done well," the nobleman said; "go thy way in peace."—*From the Talmud.*

"THE streams of religion run deeper or shallower," says Calcott, "as the banks of the Sabbath are kept up or neglected."

Sacredness of Promises.

ONE eminent British statesman is said to have traced his own sense of the sacredness of a promise to a curious lesson he got from his father when he was a boy. When home for the holidays, and walking with his father in the garden, his father pointed to a wall which he intended to have pulled down.

"O," said the boy, "I should so like to see a wall pulled down."

"Well, my boy, you shall," said his father.

The thing, however, escaped his memory, and during the boy's absence a number of improvements were being made, among others the pulling down of this wall, and the building of a new one in its place.

When the boy came home and saw it he said:—

"O, father, you promised to let me see that wall pulled down!"

Instantly the father remembered his promise, and was deeply pained that he had seemed careless about his plighted word.

"My boy," he said, "you are right. I did promise, and I ought not to have forgotten. It is too late just now to do what I said I would; but you wanted to see a wall pulled down, and you so shall."

And he actually ordered the masons up and made them pull down and rebuild the new wall, that as nearly as possible his promise might be made good.

"It cost me twenty pounds," he said to a friend who was bantering him about it; "but," he added solemnly, "if it had cost me a hundred, I should have thought it a cheap way of impressing upon my boy's mind as long as he lives the importance a man of honor should attach to his plighted word."

Let us remember the sacredness of promises.

A Suggestive Letter.

HERE (writes a friend) is a letter written nearly eighty years ago, and which was sent, with a wedding gift of a handkerchief, to a young lady on the eve of her marriage: "I send you, dear girl, an enchanted handkerchief. If you hold it tight to your mouth when you feel, some hundred years hence, (after the honeymoon,) like finding fault with your husband, it will have a very good effect. I have used one for twenty years, and found it always effectual. Jesting apart, accept the token of my regard, with the hope that your hearts may be so possessed by the witchery of love that you may need no other enchantment to secure you both a happy wedded life."

"Pay God First."

"FATHER," cried a little girl, running to her father, "a lady gave me this for the bunch of flowers I picked on my way home;" and her chubby face was glowing with delight.

"What are you going to do with it, Julia?" asked her father.

"First thing, I shall take some for Jesus," said Julia; "half of it will go right into my give-away box."

"Right, Julia," cried her father, "pay God first."

"Mercy."

WHEN Napoleon was first consul of France, a beautiful girl, about fourteen years old, might have been seen one morning at the entrance of one of the French palaces. Her tears and bitter sorrow touched the heart of the porter, who was a tender-hearted man, and he allowed her to proceed. She went straight to the consul, and as he, surrounded by his ministers, was walking through one of the apartments, in the deepest of grief the girl threw herself at his feet and exclaimed, "Mercy, sire; mercy for my father!"

"And who is thy father?" said Napoleon graciously, "and who art thou?"

"My name is Lojolia," she replied, "and my father is condemned to die."

"Alas! my child," said Napoleon, "this is the second time thy father has rebelled against the State. Indeed, I cannot help thee!"

"Ah, sire!" wept the poor girl, "I know it; I know he has trangressed the law, but the first time he was innocent. This time I plead not because he is guiltless—I plead for mercy, mercy! O, mercy for him!"

The lips of Napoleon trembled, tears filled his eyes, and, taking the hand of the child in both of his, he drew her near him, saying, "Yes, my child, at thy request I forgive thy father."

A Prayer.

MORE holiness give me, more strivings within;
ore patience in suffering, more sorrow for sin;
ore faith in my Saviour, more sense of his care;
ore joy in his service, more purpose in prayer.

More gratitude give me, more trust in the Lord;
More pride in his glory, more hope in his word;
More tears for his sorrows, more pain at his grief;
More meekness in trial, more praise for relief.

More purity give me, more strength to o'ercome;
More freedom from earth-stains, more longings for home;
More fit for the kingdom, more used would I be;
More blessed and holy, more, Saviour, like thee.

A Beautiful Reply.

"DO you love Jesus?" asked a physician of a patient in a hospital. "No," was the reply. "Well," said the physician, "Jesus loves you." For seven days there was the same question with the same answer. At last the patient summoned an attendant at midnight, exclaiming, "I am so happy; I now understand what was meant by saying, 'Jesus loves me.'" He then fell into a swoon, and on recovering, the attendant asked him if, in the meantime, he had been thinking of Jesus. "When I am conscious," was the beautiful reply, "I am thinking of Jesus; and when I am unconscious, Jesus is thinking of me."

WHAT HER FEET SAID.—An old colored Christian woman on the Island of St. Croix, in the West Indies, once said. "This morning, my feet said to me, 'You had better not go to church; you are too weak, and might fall down on the road.' Then I answered, 'I will listen to the Lord, and not to you. He says: "Go, and I will strengthen you." You, feet, when I was young, often took me in the way of sin; but now I must have my way.' So I went to church, received a blessing for my soul, and returned safely."

Are your feet always ready to take you to church?

A Cedar of Lebanon.

"ABOUT a dozen only of the oldest trees are left, but there are more than four hundred in all. The largest measure about forty feet in girth, and re thought to be several thousand years old. . . . These trees are not like the American cedar, but more like our pine. The wood is of a whitish, close, and ough texture; the bark is rough; the branches extend horizontally, with a gentle upward inclination, and the cone is large and very compact. It was long hought by travelers that this clump contained the only survivors of the an- ient historical trees; but the same kind have been seen at a few other points n the mountains, though they do not seem so old."—From "*The Lord's Land.*"

Methodist Episcopal Church.

HISTORIC NOTES.—First Society (of five members) organized in New York by Philip Embury, a local preacher, October, 1766. First Church edifice (John-street) dedicated October 30, 1768. First itinerant preachers, Richard Boardman and Joseph Pilmoor, sent by Mr. Wesley from England, 1769; the former stationed in New York, the latter in Philadelphia. First Conference held in Philadelphia in 1773. First Delegated General Conference held in Baltimore in 1812. First Bishops, Thomas Coke, LL.D., and Francis Asbury, ordained in 1784. First Sunday-school organized in 1786 by Bishop Asbury.

BOOK CONCERN—805 Broadway, New York.—Rev. REUBEN NELSON, D.D., and J. M. PHILLIPS, Esq., Book Agents at New York.

WESTERN BOOK CONCERN—190 West Fourth-street, Cincinnati.—Rev. LUKE HITCHCOCK, D.D., and Rev. J. M. WALDEN, D.D., Book Agents, Cincinnati.

BOOK COMMITTEE, 1876–1880.—District I, Ami Prince, Bangor, Me.; II, J. B. Graw, Tom's River, N. J.; III, Sanford Hunt, Buffalo, N. Y.; IV, T. Mitchell, Williamsport, Pa.; V, L. C. Matlack, Middletown, N. J.; VI, F. C. Halliday, Indianapolis, Ind.; VII, William Brush, Austin, Texas; VIII, J. L. Smith, Lafayette, Ind.; IX, W. P. Stone, Milwaukee, Wis.; X, W. S. Prentice, Springfield, Ill.; XI, W. B. Slaughter, Lincoln, Neb.; XII, William Koeneke, Belleville, Ill. LOCAL COMMITTEE AT NEW YORK—James H. Taft, 78 William-street, New York; George J. Ferry, 33 Greene-street, New York; J. B. Cornell, 141 Center-street, New York. LOCAL COMMITTEE AT CINCINNATI—Amos Shinkle, Covington, Ky.; R. A. W. Bruehl, Cincinnati; C. W. Rowland, Cincinnati.

PERIODICALS.—The following periodicals are published under the direction of the General Conference. The figures in parenthesis indicate the numbers of the volume, commencing January 1, 1877:—

Quarterly Review, (59th volume,) D. D. Whedon, D.D., LL.D., Editor; National Repository, (37th,) D. Curry, D.D., Editor, S. W. Williams, A.M., Assistant Editor; The Christian Advocate, (52d,) New York, C. H. Fowler, D.D., LL.D., Editor, W. H. De Puy, D.D., Assistant Editor; Western Christian Advocate, (44th,) Cincinnati, F. S. Hoyt, D.D., Editor, J. J. Hight, Assistant Editor; Northern Christian Advocate, (37th,) Syracuse, N.Y., Rev. O. H. Warren, A.M., Editor; Pittsburgh Christian Advocate, (44th,) A. Wheeler, D.D., Editor; Northwestern Christian Advocate, (25th,) Chicago, Arthur Edwards, D.D., Editor; Central Christian Advocate, (21st,) St. Louis, B. St. James Fry, D.D., Editor; California Christian Advocate, (25th,) San Francisco, H. C. Benson, D.D., Editor; Pacific Christian Advocate, (23d,) Portland, Oregon, Rev. J. H. Acton, Editor; South-western Christian Advocate, New Orleans, Louisiana, ———, Editor; Christian Apologist, (39th,) in German, Cincinnati, W. Nast, D.D., Editor; Haus und Herd, and German Sunday-school and Tract Publications, Cincinnati, H. Liebhart, D.D., Editor. For Sunday-School Advocate, (36th, October 1, 1875,) and Sunday-School Journal, (11th, October 1, 1876,) J. H. Vincent, D.D., Editor, J. M. Freeman, D.D., Assistant Editor; Missionary Advocate, (32d, April, 1876,) and Normal Class, (a quarterly,) see Missionary and Tract Societies and Sunday-School Union.

The Sandebudet, or Messenger, in the Swedish language, is published at Chicago by the Western Book Agents. The Golden Hours, a first-class illustrated monthly for boys and girls, commenced January 1, 1869, published by Hitchcock & Walden, Cincinnati. The Methodist Advocate, edited by E. Q. Fuller, D.D., published by Hitchcock & Walden, at Atlanta, Ga. Several other periodicals not under the direction of the General Conference are edited and published by members of the Methodist Episcopal Church.

MISSIONARY SOCIETY.—(Organized 1819. Mission Rooms, 805 Broadway, New York.) OFFICERS, OCTOBER 15, 1874: *President*, Bishop Scott; *Corresponding Secretaries*, R. L. Dashiell, D.D., J. M. Reid, D.D.; *Treasurer*, R. Nelson, D.D., New York; *Assistant Treasurer*, L. Hitchcock, D.D., Cincinnati; *Recording Secretary*, Rev. D. Terry.

GENERAL MISSIONARY COMMITTEES, 1876–80.—J. Cummings, Middletown, Conn.; J. Y. Bates, Newburgh, N. Y.; E. Remington, Ilion, N. Y.; G. W. Chesbro, Ellington, N. Y.; D. H. K. Dix, Marshall, West Va.; J. M. Trimble, Columbus, O.; J. J. Manker, Knoxville, Tenn.; D. F. Barnes, Grand Rapids, Mich.; B. Mitchell, Algona, Iowa; B. Kelly, Fort Scott, Kan.; H. K. Hines, Legrande, Or.; C. A. Loeber, Chicago.

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SUNDAY-SCHOOL UNION.—(Office, 805 Broadway, N. Y.) Bishop Scott, *President;* the remaining Bishops, and Joseph Longking and J. Pullman, *Vice-Presidents;* J. H. Vincent, D.D., *Corresponding Secretary;* W. H. De Puy, D.D., *Recording Secretary;* D. Denham, Jun., *Treasurer.* Rev. J. B. Ford, Cleveland, Tenn., Agent for work in the South.

TRUSTEES OF THE METHODIST EPISCOPAL CHURCH.—Term expires in 1880: *Ministers*—Bishop Wiley, Joseph M. Trimble, Fernando C. Holliday. *Laymen*—Edward Sargent, John Cochenour, Amos Shinkle. Term expires in 1884: *Ministers*—Luke Hitchcock, William H. Goode, Charles W. Ketcham. *Laymen*—Harvey De Camp, M. B. Hagans, Will Cumback.

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Theological Institutions of the Methodist Episcopal Church.

BOSTON UNIVERSITY SCHOOL OF THEOLOGY.—Projected in Boston, 1839; opened in Concord, N. H., as "The Methodist General Biblical Institute," 1847; removed to Boston, 1867; since 1871, "The School of Theology of Boston University." Students, 90; volumes in library, 5,000. Faculty: William F. Warren, D.D., LL.D., President, and Professor of Comparative Theology and of the History and Philosophy of Religion; James E. Latimer, D.D., Dean, and Professor of Systematic Theology; John W. Lindsay, D.D., Professor of Exegetical Theology; Luther T. Townsend, D.D., Professor of Practical Theology; David Patten, D.D., Emeritus Professor of Practical Theology, and Librarian; Henry C. Sheldon, B.D., Assistant Professor of Historical Theology. For Annual Reports and other information address Dr. James E. Latimer, Dean, 36 Bromfield-street.

DREW THEOLOGICAL SEMINARY.—Founded in 1867. Located in Madison, N. J. Faculty: Rev. John F. Hurst, D.D., President, and Professor of Historical Theology; James Strong, S.T.D., Professor of Hebrew and Exegetical Theology; Rev. D. P. Kidder, D.D., Professor of Practical Theology; Rev. H. A. Buttz, D.D., Professor of Hellenistic and Classical Greek; Rev. John Miley, D.D., Professor of Systematic Theology; Professor Mark Bailey, A.M., Special Instructor in Elocution; William W. Martin, A.B., Instructor in Languages; Charles W. Smiley, A.B., Assistant Librarian. For Catalogue and further necessary information address the President, Madison, New Jersey.

GARRETT BIBLICAL INSTITUTE.—The Theological School at Evanston, Ill. Founded in 1856. Faculty: Rev. Henry Bannister, D.D., Senior Professor of Exegetical Theology; Rev.

Minor Raymond, D.D., Professor of Systematic Theology; Rev. Francis D. Hemenway, D.D., Professor of Hebrew and Sacred Literature; Rev. William X. Ninde, D.D., Professor of Practical Theology.

MARTIN MISSION INSTITUTE.—Founded in 1858. Located at Frankfurt-au-Main, Germany. Value of building and furniture, $30,000. Rev. L. Nippert, Director and Professor; Rev. A. Sulsberger, Ph. D., Professor.

INDIA CONFERENCE THEOLOGICAL SEMINARY.—Located at Bareilly, India. Founded 1872. Principal, Rev. David W. Thomas. Value of buildings, $10,000; scholarship endowment, $55,000.

NOTE.—There are theological classes also in several of our academies and colleges.

Committee to Revise the Hymn Book of the Methodist Episcopal Church.

NEW YORK SECTION.—J. M. Buckley, D.D., E. Wentworth, D.D., Rev. R. Wheatley, Rev. J. N. Brown, and C. E. Hendrickson, Esq.

BOSTON SECTION.—D. A. Whedon, D.D., Rev. William Rice, Rev. C. S. Harrington, Rev. George Prentice, C. F. Allen, D.D.

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Bishops of Methodist Episcopal Churches.

METHODIST EPISCOPAL CHURCH—BISHOPS' ADDRESS, JANUARY 1, 1877.—Levi Scott, D.D., Odessa, Delaware; Matthew Simpson, D.D., LL.D., 1020 Arch-street, Philadelphia; Edward R. Ames, D.D., 184 M'Cullough-street, Baltimore; Thomas Bowman, D.D., LL.D., 3137 Lucas Avenue, St. Louis; William L. Harris, D.D., LL.D., Evanston, Ill.; Randolph S. Foster, D.D., LL.D., Boston; Isaac W. Wiley, D.D., Cincinnati; Stephen M. Merrill, D.D., St. Paul; Edward G. Andrews, DD., Des Moines; Gilbert Haven, Atlanta, Ga.; Jesse T. Peck, D.D., LL.D., Syracuse, N. Y.

METHODIST EPISCOPAL CHURCH, SOUTH—BISHOPS' ADDRESS.—Robert Paine, D.D., Aberdeen, Miss.; George F. Pierce, D.D., Sparta, Georgia; Hubbard H. Kavanaugh, D.D., Lexington, Kentucky; William M. Wightman, D.D., LL.D., Charleston, S. C.; Enoch M. Marvin, D.D., St. Louis, Missouri; David S. Doggett, D.D., Richmond, Virginia; Holland N. M'Tyeire, D.D., Nashville, Tenn.; John C. Keener, D.D., New Orleans, La.

AFRICAN METHODIST EPISCOPAL CHURCH.—Bishop D. A. Payne, D.D., Wilberforce University, Xenia, O.; Bishop A. W. Wayman, 127 East Baltimore-street, Baltimore, Md.; Bishop J. P. Campbell, D.D., LL.D., 1923 North-eleventh-street, Philadelphia, Pa.; Bishop J. P. Shorter, Xenia, O.; Bishop F. M. D. Ward, (care of F. J. Peck,) Atlanta, Ga.; Bishop J. M. Brown, D.D., Howard University, Washington, D. C.

AFRICAN METHODIST EPISCOPAL ZION CHURCH.—Bishops: Joseph J. Clinton, Newark, N. J.; John J. Moore, James W. Wood, S. T. Jones, W. H. Hilley, J. P. Thompson, Thomas H. Lomax.

COLORED METHODIST EPISCOPAL CHURCH OF AMERICA.—Bishops: William H. Miles, Louisville, Ky.; L. H. Halsey, J. B. Bebee, Isaac Lane.

STATISTICS.

Official Statistical Summaries of the Methodist Episcopal Church, January 1, 1877.

	For 1876.	Increase.	Increase in ten y'rs.
Bishops	11	..	..
Annual Conferences	88	8	24
Itinerant Preachers	11,361	438	3,785
Local Preachers	12,509	*d.* 372	3,907
Total Preachers	23,870	66	7,692
Lay Members in Full Connection	1,886,802	12,650	515,639
Lay Members on Probation	226,758	30,351	65,687
Total Lay Members	1,613,560	33,001	581,376
Deaths of Members during the Year	19,361	*d.* 140	.....
Baptisms of Children	56,181	*d.* 2,037	20,645
Baptisms of Adults	79,232	12,414	31,813
Total Baptisms for the Year	135,413	10,377	52,458
Church Edifices	15,634	1	5,172
Value of Church Edifices	$69,214,055	$2,139,179	$39,620,051
Parsonages	5,077	60	1,763
Value of Parsonages	$9,422,960	*d.* $308,668	$5,002,002
Total Value of Churches and Parsonages	$78,637,015	*d.* $2,447,847	$44,622,053
Sunday-Schools	19,366	79	5,321
Sunday-School Officers and Teachers	195,059	*d.* 12,123	32,868
Sunday-School Scholars	1,327,475	*d.* 79,693	346,853
Total Teachers and Scholars	1,522,534	*d.* 91,816	379,721

For full statistical summaries by Churches and Conferences, see General Minutes of 1876.

Conference Collections of the Methodist Episcopal Church for 1876.

	1874.	1875.	1876.
For Conference Claimants	$159,881 54	$152,851 90	$134,058 74
Parent Missionary Society	611,954 54	603,740 59	507,033 87
Woman's Foreign Missionary Society	55,406 08	56,118 97	62,236 08
Board of Church Extension	83,327 83	61,326 93	57,911 55
Tract Society	19,840 33	16,665 26	13,985 46
Sunday-School Union	20,196 22	17,585 02	15,909 38
Freedmen's Aid Society	37,028 29	44,198 08	35,307 02
Board of Education	23,744 60	22,911 61	25,908 94
American Bible Society (estimated)	81,299 00	76,312 00	63,406 30
Total	$1,092,673 74	$1,052,710 36	$915,757 34

These collections do not include those for the bishops, nor for any local missionary societies, Nor de they include the receipts for legacies, nor personal donations outside the Church collections. Of the above collections for missions the Sunday-schools gave $162,215 70, a decrease of $14,744 59; and the congregations gave $344,818 17, a decrease of $80,963 15.

Growth of the Methodist Episcopal Church by Decades.

Year.	Traveling Preachers.	Increase of Preachers.	Members.	Increase of Members.
1766	....	....	....	....
1776	24	24	4,921	4,921
1786	117	93	20,689	15,768
1796	293	176	56,664	35,975
1806	452	159	130,570	73,906
1816	695	243	214,235	83,665
1826	1,406	711	360,800	146,565
1836	2,928	1,522	650,103	289,303
1846	3,582	654	644,229	dec. 5,874
1856	5,877	2,295	870,327	156,098
1866	7,576	1,699	1,032,184	231,857
1876	11,361	3,785	1,613,560	581,376

During the decade 1836–1846 (in 1845) the separation of the Methodist Episcopal Church, South, took place.

Contributions and Expenses of the Methodist Episcopal Church.

After examining the official returns for the summaries of the various Conference collections, and carefully estimating for other items, basing such estimates upon exact reports from a large number of Churches, and from reports in the local minutes of Annual Conferences, the following list is presented as an approximation of the amounts contributed by the Methodist Episcopal Church for the year 1875. These estimates are under, rather than over, the true amount.

Conference collections	$1,052,710
Miscellaneous collections	218,460
Expenses for Sunday-schools	659,670
Expenses for new churches and church improvements	2,568,169
Expenses for local mission work	221,850
Expenses for salaries of ministers	9,890,200
Local Church expenses	2,343,450
Total	$16,949,509

Summary of Methodists in the United States for 1876.

	Itinerant Ministers.	Local Preachers.	Lay Members.
I. Episcopal Methodists—			
Methodist Episcopal	11,861	12,509	1,618,560
Methodist Episcopal, South	3,271	5,462	722,346
Colored Methodist Episcopal	635	683	80,000
African Methodist Episcopal	1,364	2,664	200,681
African Methodist Episcopal Zion	1,000	2,000	200,000
Evangelical Association	835	503	95,253
United Brethren	967	1,835	131,859
Total Episcopal Methodists	19,433	25,656	3,043,704
II. Non-Episcopal Methodists—			
The "Methodist Church"	775	507	55,183
Methodist Protestant	650	200	58,319
American Wesleyan	250	175	19,637
Free Methodists	229	172	8,804
Primitive Methodists	20	25	2,800
Congregational and other Independent Methodists	23	...	9,500
Total Non-Episcopal Methodists	1,947	1,079	154,243
Total Methodists in United States	21,380	26,735	3,197,947

General Summary of Methodists throughout the World.

	Itinerant Ministers.	Local Preachers.	Lay Members.
Methodists in United States	21,380	26,735	3,197,947
British Wesleyan Methodists	2,189	13,787	406,166
Irish Wesleyan Methodists	187	1,800	21,227
French Wesleyan Methodists	36	96	2,028
Australian Wesleyan Methodists	891	3,117	76,878
British Primitive Methodists	1,080	15,305	176,847
Methodist New Connection Church	261	1,149	26,837
United Methodist Free Churches	354	3,117	74,845
Bible Christian Churches	284	1,828	30,197
British Wesleyan Reform Union	19	598	7,708
Methodist Church of Canada	1,004	1,027	102,887
Methodist Episcopal Church in Canada	247	201	23,012
Other Methodists not included above	380	420	26,000
Grand total	27,812	69,180	4,172,579

Lay Officers of the Methodist Episcopal Church.

CAREFULLY ESTIMATED.

Number of Trustees of Churches	104,920
Number of Stewards of Societies	88,868
Number of Class-leaders	56,483
Number of Sunday-school Superintendents	27,565
Number of S. S. Teachers and Officers other than Superintendents	167,494

Comparative Progress of the M. E. Church for Ten Years.

Year.	Itinerant Preachers.	Increase.	Local Preachers.	Increase.	Lay Members.	Increase.
1865	7,175	354	8,493	288	929,250	939
1866	7,576	401	8,602	209	1,032,184	102,925
1867	8,004	428	9,469	867	1,146,081	113,937
1868	8,481	477	9,899	430	1,255,115	109.034
1869	8,830	349	10,340	441	1,298,938	43,823
1870	9,193	1,064	10,404	1,064	1,367,134	68,196
1871	9,699	506	11,382	978	1,421,323	54,189
1872	10,242	543	11,964	582	1,458,441	37,118
1873	10,571	329	12,261	297	1,464,027	5,586
1874*	10,845	274	12,706	445	1,563,521	99,494

Total increase in ten years:—Itinerant preachers, 4,024; local preachers, 4,501; lay-members, 635,101.

Churches and Parsonages of the M. E. Church and their Comparative Value for Ten Years.

Year.	Churches.	Increase.	Parsonages.	Increase	Value of Churches.	Value of Parsonages.
1865	10,041	26	3,143	194	$26,750,502	$4,396,731
1866	10,462	420	3,314	171	29,594,004	4,420,958
1867	11,121	...	3,570	..	35,885,439	5,361,295
1868	11,692	477	3,810	240	41,693,922	6,276,579
1869	12,048	...	3,968	158	47,253,067	6,862,230
1870	13,373	1,325	4,179	211	52,614,591	7,293,513
1871	13,440	67	4,309	130	56,911,900	7,786,804
1872	14,009	569	4,484	75	62,393,237	8,575,877
1873	14,499	490	4,677	193	66,832,580	8,542,554
1874*	14,989	460	4,989	311	69,049,523	9,469,170

Total increase in ten years: Church edifices, 4,974; parsonages, 2,136; value of churches, $45,268,018; parsonages, $6,671,020; total increase of value of churches and parsonages, $51,949,038.

Comparative Growth of Sunday-Schools of the M. E. Church for Ten Years.

Year.	Schools.	Increase.	Officers and Teachers.	Increase.	Scholars.	Increase.
1865	13,948	795	153,699	5,224	931,724	72,024
1866	14,045	96	162,191	8,492	980,622	48,898
1867	15,341	296	174,945	2,754	1,081,891	101,261
1868	15,885	544	181,666	6,721	1,145,167	63,276
1869	16,393	508	184,586	2,930	1,179,984	34,817
1870	16,912	518	189,412	4,816	1,221,393	41,409
1871	17,555	...	193,979	4,567	1,267,742	46,349
1872	17,471	dec. 74	193,691	dec. 288	1,278,559	11,817
1873	18,031	559	197,180	3,489	1,318,603	40,044
1874*	18,958	927	203,408	16,229	1,383,227	64,624

Total increase in ten years: Schools, 5,805; officers and teachers, 54,934; scholars, 523,527; total increase of teachers and scholars, 578,461.

* For summaries for 1875, and 1876 see page 33.

Itinerant Preachers Received in 1875.

At the several Annual Conferences, (not including foreign missions,) held during the year 1875, 574 preachers were received into the itinerant ministry of the Methodist Episcopal Church. Of these there were received—

On trial from local ministry	521
Re-admitted from local ministry	31
On credentials from other Churches	22

Of the last-named list five were from the African Methodist Episcopal Church, six from the "Methodist Church," two from the Methodist Protestant Church, two from the Methodist Episcopal Church of Canada, and one each from the Methodist Episcopal Church, South, the Colored Methodist Episcopal Church in America, Presbyterian Church, British Wesleyan Church, Irish Wesleyan Church, Evangelical Association, and Baptist Church.

Losses in Itinerant Ministry in 1875.

At the close of the year 1874 there were returned in the itinerant lists of the several Annual Conferences 10,854 ministers. During the ensuing year (1875) the losses were:—

Deaths of ministers	135
Ministers located	98
Discontinued	232
Ministers withdrawn	27
Expelled	13

These make a total of 505. This number deducted from the aggregate reported at the beginning of the work would lessen the number to 10,349, but to this last number must be added the number of ministerial accessions during 1875, namely, 574, making the whole at the close of the year 10,923, or a net gain for the year of 69, the exact number reported in the General Minutes. The numbers discontinued fall out from the classes on trial, and go back to reinforce the ranks of the local preachers from which they were taken.

Woman's International Temperance Union, Organized 1876.

PRESIDENT: Mrs. Margaret E. Parker, of Dundee, Scotland. VICE-PRESIDENTS: Mrs. Annie Wittenmyer, of Pennsylvania; Mrs. Margaret Lucas, of London, England; Mrs. S. Youmans, Pictou, Ontario; Mrs. E. Wellstood, Edinburgh, Scotland; Mrs. C. Edmondson, Dublin, Ireland; Mrs. J. M. Jones, Wexham, Wales; Mrs. Mary Pruyn, Yokohama, Japan; Madame Caroline Berger, France; Madame Canton, Italy; Mrs. Mary A. Livermore, Boston, Mass.; Mrs. Stewart, of Ohio; Mrs. Frances E. W. Harper, of Philadelphia; Mrs. William Butler, city of Mexico; Mrs. Robert Tuttle, of Berlin; Miss Beulah Woolston, Foochow, China; Mrs. H. Brittain, Calcutta, India; Mrs. Armstrong, Sandwich Islands; Miss L. B. Denning, Rosario, S. A.; Mrs. W. H. Williams, Kingston, Jamaica; Mrs. H. H. Jessup, Beyrout, Syria. CORRESPONDING SECRETARIES: Mrs. J. E. Foster, Iowa; Lady Jane Ellis, Bristol, England. RECORDING SECRETARIES: Mrs. John Hilton, London, England; Mrs. J. F. Willing, Chicago, Ill. TREASURERS: Mrs. William M'Master, Toronto, Canada; Mrs. Scholefield, Newcastle-on-Tyne, England.

Bible Societies.

AMERICAN BIBLE SOCIETY, (Bible House, Astor Place, New York.)—PRESIDENT: William H. Allen, LL.D. CORRESPONDING SECRETARIES: Rev. Joseph Holdich, D.D., Rev. Edward W. Gilman, D.D., Rev. Alexander M'Lean, D.D. ASSISTANT TREASURER: Andrew L. Taylor. GENERAL AGENT: Caleb T. Rowe. Total receipts in sixty years $17,229,142 31, and in that time it has issued, in various languages, 33,125,766 volumes of Scripture. It is now circulating the Scriptures in about seventy different languages and dialects. The Society was organized in 1816. (For other Societies, see p. 42.)

Our Preachers and their Official Work.

THE total number of preachers embraced in the various Annual Conferences of the Methodist Episcopal Church in 1875, as reported in the official returns of that year, was 23,794. The following figures give the number in each class:—

Effective Preachers	9,130
Supernumeraries	680
Superannuated	1,103
Local Preachers	12,881
Total	23,794

The following list shows the particular work assigned in the year 1875 to the 9,130 "effective preachers" named above. The items have been carefully made up from the official returns of the several Annual Conferences:—

Presiding elders	445	Superintendent public instruction	1
Appointed pastors	8,249	Superintendent Minard Home	1
Editors (officially appointed)	20	Conference evangelists	2
Book Agents	9	Secretaries Y. M. C. Association	2
Missionary corresponding secretaries	3	Secretaries temperance societies	3
Bible Society secretaries	5	Secretaries literary institutions	4
Tract Society secretaries	2	Indian agents	2
Sunday-school secretaries	4	Agents American Bible Society	16
Secretaries Church Extension	2	Agents temperance societies	12
Secretary Freedmen's Aid Society	1	Agents literary institutions	26
Chaplains United States army	3	Agent Seamen's Friend Society	1
Chaplains United States navy	7	Agents Preachers' Aid Society	4
Other chaplains	10	Agents Tract Society	3
Presidents literary and theological institutions	53	Agents Conference missionary societies	3
Principals of literary and theological institutions	39	Agent German Orphan Asylum	1
Professors in theological institutions	9	Agent prison reform	1
Professors in other literary institutions	69	Agents local churches	4
		Conference ministers appointed to foreign work	105

Missionary Summaries.

THE number of missionaries under the supervision of the Methodist Episcopal Church on the first of January, 1876, are shown by the subjoined official summaries:—

Foreign missionaries and assistants	690
Foreign native preachers	281
Missionaries in Territories	15
Missionaries to foreigners in United States	297
Domestic missionaries	2,378
Total missionaries	3,661

The foreign missionaries are divided into classes, thus: American Methodist Episcopal missionaries in foreign lands, 103; assistant missionaries, 559; missionaries of the Woman's Foreign Missionary Society, 28.

The value of Methodist Episcopal Church property in foreign missions is estimated at $791,353. This summary includes only the value of the churches, of which there are 160, and of parsonages, of which there are 55.

The National Temperance Society.

HEAD-QUARTERS, 58 Reade-street, New York. PRESIDENT, Hon. William E. Dodge; SECRETARY, Rev. J. N. Stearns; TREASURER, T. T. Sheffield.

Resolutions approving the work of this Society were adopted by the General Conference held in Baltimore in May, 1876.

Methodist Episcopal Church, South.

First General Conference held 1846. Last General Conference held in Louisville, May 1, 1874, T. O. Summers, D.D., Secretary.

General Conference Officers and Editors.—Missionary Secretary, J. B. M'Ferrin, D.D. Officers of Missionary Board: President, T. O. Summers, D.D.; Treasurer, A. H. Redford, D.D. Book Agent, A. H. Redford, D.D., Nashville; Editor of Books and Christian Advocate, Nashville, T. O. Summers, D.D.; Sunday-school Secretary, W. G. E. Cunnyngham, D.D.; Western Methodist, W. C. Johnson, D.D., Editor; Southern Christian Advocate, F. M. Kennedy, D.D., Editor, J. W. Burke, Assistant Editor; St. Louis Christian Advocate, D. R. M'Annally, D.D., Editor; Texas Christian Advocate, I. G. John, Editor; Pacific Christian Advocate, W. B. Parsons, Editor; New Orleans Christian Advocate, L. Parker, Editor: Editor of German Papers, J. B. A. Ahrens; Assistant Editor, E. S. N. Blogg.

Official Statistics, January 1, 1876.

Conferences.	Travel'g Preach's	Sup'ted Preach's	Local Preach's	White Members.	Total Pr's & Members.	Increase.
Baltimore	178	13	103	25,165	25,548	1,048
Virginia	166	15	189	48,182	48,765	1,618
Western Virginia	59	1	133	12,991	13,208	944
Holston	161	10	294	38,087	38,868	836
North Carolina	146	13	221	53,750	54,551	4,125
South Carolina	149	11	186	40,882	41,109	1,446
North Georgia	170	21	425	53,520	54,204	2,521
South Georgia	109	18	221	29,304	29,652	1,805
Florida	51	8	97	8,705	8,881	486
Alabama	120	10	210	28,975	29,379	1,196
North Alabama	119	8	322	31,680	32,145	318
Louisiana	72	8	75	13,310	13,592	971
Mississippi	105	13	162	20,754	21,034	126
North Mississippi	124	9	204	27,828	28,165	407
Memphis	116	9	276	31,627	32,028	d 655
Tennessee	192	6	331	40,766	41,297	d 250
Kentucky	99	8	111	19,306	19,641	d 1,019
Louisville	119	7	214	29,515	29,885	d 79
St. Louis	51	5	87	10,421	10,573	807
South-west Missouri	69	4	112	13,931	14,136	d 117
Missouri	126	8	141	24,854	25,129	426
Western	20	1	9	2,359	2,389	d 331
Denver	19	1	1	502	523	d 143
Indian Mission	18	3	85	313	4,859	d 335
Arkansas	53	3	162	10,791	11,016	d 1,154
White River	68	2	108	12,243	12,435	499
Little Rock	77	7	152	14,641	14,877	d 995
North Texas	83	8	219	18 991	19,301	798
East Texas	50	2	116	11,223	11,391	166
Texas	50	8	59	6,734	6,851	d 255
North-west Texas	105	6	233	17,482	17,826	2,156
West Texas	47	5	62	5,018	5,132	489
German Mission	22	..	13	951	986	46
Los Angeles	19	2	17	875	913	87
Pacific	59	3	52	3,728	3,842	365
Columbia	20	1	23	1,033	1,077	58
Illinois	52	2	81	5,792	5,927	48
China Mission	...	..	6	101	107	16
Mexican Mission	...	..	..	83	83	83
Brazilian Mission	...	..	..	38	38	38
Bishops		..	..	.....	8	....
Total in 1875	3,271	259	5,462	715,951	731,361	

There are 715,951 white members, 2,083 colored, and 4,315 Indians; a total of 722,346 lay members. Infant baptisms, 322,603; adult baptisms, 38,998; Sunday-schools, 7,578; teachers and officers, 49,797; Sunday-school scholars, 346,759; collected for Conference claimants, $64,826; collected for missions, $120,168. Net increase of members and preachers for the year, 18,596.

Other Methodist Churches in the United States.

AFRICAN METHODIST EPISCOPAL.—(Publishing Head-quarters, Philadelphia, B. Tanner, D.D., Editor.) Conferences, 15; bishops, 6; itinerant preachers, 1,364; local preachers, 2,664; members, 200,681; churches, 1,642; value of churches, $3,129,196; parsonages, 134; value of parsonages, (partial,) $34, 885; Sunday-schools, 1,974; teachers, 6,624; scholars, $98,008.

AFRICAN METHODIST EPISCOPAL ZION CHURCH.—(Head-quarters, Washington, D. C.) Bishops, 6; conferences, 17; itinerant preachers, 1,000; local preachers, 2,000; lay members, 20,000; Sunday-school teachers, 18,000; Sunday-school scholars, 85,000; value of church property, $14,000,000.

COLORED METHODIST EPISCOPAL CHURCH OF AMERICA.—(Organized under the auspices of the Methodist Episcopal Church, South, in 1872.) Bishops, 4; conferences, 14; traveling preachers, 635; local preachers, 683; lay members, 80,000.

EVANGELICAL ASSOCIATION.—(Head-quarters, Cleveland, O.) Bishops, 4; annual conferences, 15; itinerant preachers, 835; local preachers, 503; lay members, 95,258; churches, 1,233; value of churches, 2,935,000; parsonages, 322; value of parsonages, $284,049; Sunday-schools, 1,502; Sunday-school teachers and officers, 16,875; scholars, 80,000.

UNITED BRETHREN CHURCH.—First Conference held in Baltimore, 1789. (Head-quarters, Dayton, Ohio.) The statistics of 1875 show:—Number of bishops, 4; annual conferences, 43; itinerant ministers, 1,835; lay members, 131,859; Sunday-schools, 2,694; church edifices, 1,780; parsonages, 249; church property, $2,502,800.

METHODIST PROTESTANT CHURCH.—(Publishing head-quarters in Baltimore.) Connectional officers: L. A. Bates, D.D., president; Rev. A. C. Harris, Maryland, secretary; Rev. E. J. Drinkhouse, editor of "Methodist Protestant;" annual conferences, 29; itinerant preachers, 650; local preachers, 200; lay members, 43,319; additional lay members (estimated), 15,000; Sunday-school scholars, 50,000.

METHODIST (PROTESTANT) CHURCH.—(Publishing head-quarters at Pittsburgh.) Publishing Agent, Rev. J. Robinson; editor "Methodist Recorder," Alexander Clark, D.D. Last General Conference, May 19, 1875: Itinerant preachers, 775; unstationed preachers, 507; total preachers, 1,282; lay members, 55,183; church edifices, 667; parsonages, 171; church property, $1,767,140.

AMERICAN WESLEYAN CHURCH.—(Publishing head-quarters at Syracuse, N. Y.) Rev. L. M. Stratton, editor "American Wesleyan;" Book Agent, Rev. D. F. Kinney. Number of conferences, 16; itinerant preachers, 250; local preachers, 175; lay members, 19,637; class leaders, 620; church edifices, 510; church property, $421,000; Sunday-schools, 530; officers and teachers, 3,080; scholars, 14,327.

FREE METHODIST CHURCH.—Superintendent, 1; annual conferences, 8; itinerant preachers, 229; local preachers, 172; lay members, 8,804; Sunday-schools, 208; Sunday-school teachers, 1,326; Sunday-school scholars, 6,989; church property, $335,075.

General Conference Sessions.

The General Conference of the Methodist Episcopal Church meets in Cincinnati, May 1, 1880.

The General Conference of the African Methodist Episcopal Church meets in St. Louis, May 1, 1880.

The General Conference of the African Methodist Episcopal Zion Church meets June 21, 1880.

The Methodist (Protestant) General Conference meets in May, 1879.

The General Conference of the Methodist Episcopal Church in Canada meets in Belleville, August 25, 1878.

The General Conference of the Methodist Church in Canada meets in Montreal first Wednesday in September, 1878.

The General Conference of the Methodist Episcopal Church, South, meets in 1878.

☞ NOTE.—After page 32 was printed, Bishop Harris's residence was changed to New York, and that of Bishop Merrill to Chicago.

Methodist Church in Canada.

ORGANIZED in 1874 by union of the Wesleyan and New Connection Conferences of Canada, and the Wesleyan Conference of Eastern British America. The first General Conference was held in Toronto, Sept. 17, 1874. President, Rev. E. Ryerson, LL.D.; Vice-President, George Douglass, D.D.; Secretary, D. D. Currie; Book Steward at Toronto, Rev. S. Rose; Editor "Christian Guardian," Toronto, Rev. E. H. Dewart; Assistant Editors, Rev. W. H. Withrow, A. M., and Rev. D. Savage; Editor "Provincial Wesleyan" and Book Steward, at Halifax, Rev. A. W. Nicholson. Total itinerant ministers in 1876, 1,131; members, 115,021; Sunday-schools, 1,576; Sunday-school officers and teachers, 21,855; scholars, 99,393.

MISSIONARY SOCIETY.—(Mission House, Temperance-street, Toronto.) President, Rev. Egerton Ryerson, D.D., LL.D.; Secretary, Rev. E. Wood, D.D.; Secretarial Treasurer, Rev. A. Sutherland; Treasurer, John M'Donald, Esq., M.P. Number of missions, 422; missionaries, 458; schools, 80; school teachers and interpreters, 51; income for 1875-76, $162,639; expenditure, $158,677.

There are six Annual Conferences, namely:—

Toronto Conference.—President, Wellington Jeffers, D.D.; Secretary, Rev. William Briggs. Ministers, 350; members, 34,380; Sunday-schools, 460; officers, 4,423; scholars, 30,990.

London Conference.—President, G. N. Sanderson; Secretary, W. S. Griffin. Ministers, 311; members, 35,328; Sunday-schools, 476; officers, 5,505; scholars, 39,971.

Montreal Conference.—President, William Scott; Secretary, William J. Hunter. Ministers, 218; members, 21,018; Sunday-schools, 262; officers, 1,621; scholars, 15,844.

Nova Scotia Conference.—President, R. A. Temple; Secretary, S. F. Heustis. Ministers, 109; members, 9,884; Sunday-schools, 150; officers, 1,255; scholars, 8,531.

New Brunswick Conference.—President, Robert Duncan; Secretary, Howard Sprague, M.A. Ministers, 94; members, 7,884; Sunday-schools, 127; officers, 813; scholars, 8,321.

Newfoundland Conference.—President, James Dove; Secretary, John Goodison. Ministers, 49; members, 6,527; Sunday-schools, 101; officers, 730; scholars, 5,781.

Methodist Episcopal Church of Canada.

GENERAL CONFERENCE held at Napanee, August 28, 1874. Bishop Richardson (since deceased) presided. Rev. A. A. Carman, D.D., President of Albert College, elected bishop. Secretary, Rev. M. Benson; Editor "Canada Christian Advocate," and Book Agent, Hamilton, Rev. T. G. Stone; Missionary Secretary, Rev. James Gardner.

The Statistics of 1876 return 252 ministers, 240 local preachers, 25,212 members, 368 Sunday-schools, 19,755 scholars, and 2,901 teachers. Value of Church property, $994,755.

Niagara Conference meets at St. Thomas on the third Wednesday in April, 1877. M. Benson, Secretary.

Ontario Conference meets at Brampton on the fourth Wednesday in May, 1876. J. Curts, Secretary.

Bay Quinte Conference met at Brockville on the first Wednesday in June, 1876. J. Young, Secretary.

The benevolent collections of the several Annual Conferences were reported as follows:—

Ontario Conference: Home Missions, $3,063 31; Foreign Missions, $120 50; Contingent Fund, $539 69; Church Extension, $67 48; Improvements in Churches, $35,134; Improvements in Parsonages, $25,065.

Niagara Conference: Home Missions, $4,093 61; Foreign Missions, $367 88; College Fund, $591 88; Contingent Fund; $98 52; Church Extension, $26 16; Improvements in Churches, $21,676; Improvements in Parsonages, $3,044.

Bay Quinte Conference: Home Missions, $2,975 66; Foreign Missions, $186; College Endowment, $478 31; Church Extension, $16 20; Contingent Fund, $52 21; Improvements in Churches, $19,859 40; Improvements in Parsonages, $2,505 09.

NOTE.—The Bible Christians, Primitive Methodists, and some others in Canada, are connected with parent bodies in England.

Other Foreign Methodist Churches.

BRITISH WESLEYAN METHODIST CHURCH.—Itinerant ministers, 2,189; local preachers 13,787; members, 406,166; day schools, 736; day scholars, 173,150; Sunday-schools, 5,875; Sunday-school scholars, 701,871.

IRISH WESLEYAN METHODIST CHURCH.—Itinerant ministers, 187; local preachers, 1,800; members, 21,227; Sunday-schools, 258; Sunday-school scholars, 20,610.

FRENCH WESLEYAN METHODIST CHURCH.—Itinerant ministers, 36; local preachers, 96; members, 2,028; day schools, 11; day scholars, 407; Sunday-schools, 59; Sunday-school scholars, 2,872.

AUSTRALASIAN WESLEYAN METHODIST CHURCH.—Itinerant preachers, 391; local preachers, 3,117; members, 760,878; churches, 854; day schools, 49; Sunday-schools, 2,272; Sunday-school scholars, 132,003.

PRIMITIVE METHODIST CHURCH.—Itinerant ministers, 1,080; local preachers, 15,305; chapels, 4,038; members, 176,847; Sunday-schools, 3,760; Sunday-school scholars, 334,991; teachers, 53,940.

NEW CONNECTION METHODIST CHURCH.—Chapels, 439; itinerant preachers, 261; local preachers, 1,149; members, 26,837; Sabbath-schools, 418; officers and teachers, 10,358; Sunday-school scholars, 72,778.

UNITED METHODIST FREE CHURCHES.—Itinerant ministers, 354; local preachers, 3,428; members, 74,845; chapels, 1,309; other preaching rooms, 249; Sunday-schools, 1,263; Sunday-school teachers, 25,281; Sunday-school scholars, 170,718; day schools, 74; day-school teachers, 166; day-school scholars, 11,554.

WESLEY REFORM UNION.—Itinerant ministers, 19; local preachers, 598; members, 7,708; Sunday-schools, 174; Sunday-school scholars, 17,706.

BIBLE CHRISTIANS.—Itinerant preachers, 284; local preachers, 1,828; members, 30,197; chapels, 896; other preaching places, 182; Sunday-school teachers, 9,642; Sunday-school scholars, 51,658.

BRITISH METHODIST EPISCOPAL CHURCH separated from African Methodist Episcopal Church and organized in 1856. At General Conference in 1876 reported 4 Annual Conferences; namely, Ontario, Nova Scotia, Bermuda, and Demerara. Itinerant preachers, 41; local preachers, 20; churches, 50; Sunday-school scholars, (over) 2,000; Bishop Randolph R. Disney elected in 1876 for life—his head-quarters at Chatham, Canada. Next General Conference, first Monday in September, 1880.

Statistical Summaries of Denominations in U. S.

Baptist (North and South—Year-Book, 1875): Churches, 21,511; ordained ministers, 13,354; total membership, 1,761,710.

Presbyterian: Ministers, 4,744; churches, 5,077; communicants, 585,210; Sunday-school members, 555,347.

Southern Presbyterian: Ministers, 999; churches, ——; members of Sunday-schools, 67,384.

Congregational: Ministers, about 3,200; churches, 3,438; members, 338,313; Sunday-school scholars, 401,338.

Protestant Episcopal—(North and South—P. E. Almanac, 1875): Ministers, 3,140; parishes, 2,750; members, 273,092.

Cumberland Presbyterian, (1875): Ministers, 1,173; communicants, 100,000.

Reformed Church, (1875): Ministers, 476; members, 101,638; communicants, 88,091; Sunday-schools, 827.

Roman Catholics (Catholic Directory, 1875): Priests, 4,873; churches, chapels, and stations, 6,920; members—not given except by whole population, of which a total of 6,000,000 is claimed without warrant.

The Moravian Church in this country reports, (1875): Churches, 75; members, 9,705.

Reformed Presbyterian, (1875): Ministers, 100; pastoral charges, 76; communicants, 9,900.

United Presbyterians: Ministers, 591; members, 73,452; scholars, 47,507.
Evangelical Lutherans: Ministers, 711; members, 106,517; churches, 1,182.
Reformed Church (late German): Ministers, 574; congregations, 1,290; members, 128,771.
Free-will Baptists (1874): Churches, 1,875; ministers, 1,141; members, 66,691.
Seventh-day Baptists: Churches, 75; ministers, 82; members, 7,336.
The Disciples (Campbellite Baptist): Churches, about 5,000; members, 500,000.
Reformed Episcopal Church: (organized, Dec., 1873, by Bishop George D. Cummins, Assistant Bishop of the Protestant Episcopal diocese of Kentucky.) Bishops: Geo. D. Cummins, D.D., (died in Baltimore, June, 1876;) Charles E. Cheney, D.D., (now presiding Bishop;) ——— Nicholson, Dean Cridge, B.A., and Samuel Fallows. A.M., D.D. The statistical report at the fourth General Conference held in Ottawa, Canada, July 12, 1876, stated that at that date there were upward of sixty ministers with fifty congregations in union with the Church.

Average Missionary Contributions per Member.

The Missionary Collections were first reported in the General Minutes of 1852. Total raised that year, $152,382. The average amount per member was 20.9 cents. The highest average paid per member by any Conference was in Genesee, when the average was 46.7 cents. The lowest average was in Arkansas, where it was 5 cents. In 1853 the average was 27 cents with California, the highest, (70.6 cents,) and Oregon the lowest, (1.6 cents.) In 1854 it was 29.2 cents with New England, the highest, (57.9 cents,) and Missouri the lowest, (3.9 cts.)

For the successive years the average missionary contributions per member (not including the amount received from legacies) ranges as follows:—

Year.	Per member.	Year.	Per member.	Year.	Per member
1855	25.5 cents.	1862	25.3 cents.	1869	46. cents
1856	25.1 "	1863	42.3 "	1870	46.9 "
1857	27.6 "	1864	52.6 "	1871	43.4 "
1858	22.9 "	1865	63.7 "	1872	46. "
1859	25.5 "	1866 (Cent'y year)	65. "	1873	45.9 "
1860	26. "	1867	51. "	1874	39.1 "
1861	22.7 "	1868	47.8 "	1875	38.2 "

In computing the averages in the above table the probationers are included in the number of members, and also the number of members on all our Mission fields. If these were excluded, the average would be considerably larger.

Total Annual Receipts of the Missionary Society of the Methodist Episcopal Church.

Year.	Amount.	Year.	Amount.	Year.	Amount.	Year.	Amount.
1820	$823 04	1834	$35,700 15	1848	$81,600 34	1862	$272,523 71
1821	2,328 76	1835	30,492 21	1849	84,045 15	1863	429,768 75
1822	2,547 39	1836	59,517 16	1850	104,579 54	1864	558,993 26
1823	5,427 14	1837	57,096 05	1851	126,471 31	1865	642,740 67
1824	3,589 92	1838	96,087 36	1852	152,482 48	1866	686,380 30
1825	4,140 16	1839	132,480 29	1853	338,068 39	1867	613,020 96
1826	4,964 11	1840	136,419 87	1854	226,412 05	1868	606,661 69
1827	6,812 49	1841	139,925 76	1855	219,304 04	1869	634,704 11
1828	6,245 17	1842	139,473 25	1856	238,441 92	1870	602,951 27
1829	14,176 11	1843	144,770 80	1857	272,190 48	1871	629,921 75
1830	13,128 63	1844	146,578 78	1858	258,224 61	1872	673,756 60
1831	9,950 57	1845	94,562 27	1859	270,667 19	1873	689,736 64
1832	11,379 66	1846	89,528 26	1860	262,722 77	1874	687,720 32
1833	17,097 05	1847	78,932 73	1861	250,374 93	1875	662,485 88

British and Foreign Bible Society.

Organized in 1804. Total copies issued, 76,400,000.

There are 79 different Bible Societies, not including in this number the great number of subordinate or auxiliary Bible Societies.

United States Denominational Statistics. Census 1870.

DENOMINATIONS.	Organizations, 1870.	Edifices, 1870.	Sittings, 1870.	Property, 1870.	Property, 1850.
Baptist, (regular)	14,474	12,857	3,997,116	$39,229,221	$11,020,555
Baptist, (other*)	1,355	1,105	363,019	2,378,977	153,115
Christian	3,578	2,822	865,602	6,425,137	853,386
Congregational	2,887	2,715	1,117,212	25,069,698	8,001,995
Episcopal, (Protestant)	2,835	2,601	991,051	36,514,549	11,375,010
Evangelical Association	815	641	193,796	2,301,650	118,250
Friends	692	662	224,664	3,939,560	1,713,767
Jewish	189	152	73,265	5,155,234	418,600
Lutheran	3,032	2,776	977,332	14,911,747	2,909,711
Methodist	25,278	21,337	6,528,209	69,854,121	14,825,070
Miscellaneous	27	17	6,935	135,650	214,520
Moravian, (Unitas Fratrum)	72	67	25,700	709,100	444,167
Mormon	189	171	87,838	656,750	84,780
New Jerusalem (Swedenborgian)	90	61	18,755	869,700	115,100
Presbyterian, (regular)	6,262	5,683	2,198,900	47,828,732	14,543,789
Presbyterian, (other†)	1,562	1,388	499,344	5,436,524	27,550
Reformed Church in America, (late Dutch Reformed)	471	468	227,228	10,859,255	4,116,280
Reformed Church in the United States, (late German Reformed.	1,256	1,145	431,700	5,775,215	993,730
Roman Catholic	4,127	3,806	1,990,514	60,985,566	9,256,758
Second Advent	225	140	34,555	306,240	11,190
Shaker	18	18	8,850	86,900	39,500
Spiritualist	95	22	6,970	100,150	... ...
Unitarian	331	310	155,471	6,282,675	3,280,822
United Brethren in Christ	1,445	937	265,025	1,819,810	18 600
Universalist	719	602	210,884	5,692,325	1,778,316
Unknown, (Local Missions)	26	27	11,925	687,800	98,950
Unknown. (Union)	409	552	153.202	965,295	915,020
All Denominations	72,459	63,082	21,665,062	$354,483.581	$87,328,891

Organizations of Missionary Societies in the United States.

AMERICAN Board of Commissioners for Foreign Missions organized in June, 1810. The first mission station established in Bombay, 1814.

American Baptist Missionary Society organized in 1814. Commenced mission work in Rangoon, Burmah.

Methodist Episcopal Missionary Society organized in 1819. First work among the Germans and other European emigrants to this country, and Indians. First Foreign work in Liberia, in 1832.

Protestant Episcopal Board of Missions organized in 1820. First Foreign Mission in Tenos, Greece, in 1830.

American Society for Ameliorating the Condition of the Jews organized in 1820. First mission work proper in 1849.

Freewill Baptist Foreign Missionary Society organized in 1835.

Board of Missions of Presbyterian Church in the United States organized in 1796. First Foreign work in Liberia, Africa, in 1832. First mission in India in 1833.

Seventh-Day Baptist Missionary Society organized in 1842. First work in West Africa. Chinese Mission opened in Shanghai in 1847.

American Missionary Association organized in Albany, N. Y., in 1846. Its early missions were among the colored people.

American and Foreign Christian Union organized in New York in 1849. Its work has been chiefly in Papal countries. In 1854 it employed 140 missionaries.

Missionary Society of Methodist Episcopal Church, South, organized in 1845.

Reformed (Dutch) Church Missionary Society organized in 1832.

Southern Baptist Board of Missions organized in 1845.

United Presbyterian Church Missions organized in 1859.

International Bible Lessons for 1877.

First Quarter.

Jan. 7. The Kingdom Divided. 1 Kin. 12. 12–20.
14. The Sin of Jeroboam.... 1 Kin. 12. 25–33.
21. Omri and Ahab..... 1 Kin. 16. 23–34.
28. Elijah the Tishbite.... 1 Kin. 17. 1–16.
Feb. 4. Elijah and Ahab..... 1 Kin. 18. 5–18.
11. Elijah and the Prophets of Baal..... 1 Kin. 18. 19–29.
18. Elijah and his Sacrifice. 1 Kin. 18. 36–46.
25. Elijah at Horeb..... 1 Kin. 19. 8–18.
Mar. 4. The Story of Naboth. 1 Kin. 21. 4–14.
11. Elijah Translated..... 2 Kin. 2. 1–12.
18. The Spirit of Elijah,... 2 Kin. 2. 13–25.
25. Review, or Lesson Selected by the School.

Second Quarter.

April 1. The Oil Increased... 2 Kin. 4. 1–7.
8. The Shunammite's Son.. 2 Kin. 4. 25–37.
15. Naaman the Leper..... 2 Kin. 5. 1–14.
22. Gehazi the Leper..... 2 Kin. 5. 20–27.
29. Elisha at Dothan..... 2 Kin. 6. 8–18.
May 6. The Famine in Samaria 2 Kin. 7. 12–20.
13. Jehu the King..... 2 Kin. 10. 20–31.
20. Jonah at Nineveh..... Jonah 3. 1–10.
27. The Death of Elisha.... 2 Kin. 13. 14–21.
June 3. The Lamentation of Amos..... Amos 5. 1–15.
10. The Promise of Revival. Hosea 14. 1–9.
17. The Captivity of Israel. 2 Kin. 17. 6–18.
24. Review Lesson, (with Nahum 1. 1–13.)

Third Quarter.

July 1. Paul in Cyprus..... Acts 13. 1–13.
8. Paul at Antioch..... Acts 13. 26–41.
15. Turning to the Gentiles. Acts 13. 42–52.
22. Paul at Lystra..... Acts 14. 8–20.
29. The Yoke Broken..... Acts 15. 22–31.
Aug. 5. Paul sent to Macedonia Acts 16. 1–15.
12. Paul and Silas in Prison. Acts 16. 22–34.
19. Thessalonians and Bereans Acts 17. 1-14.
26. Paul at Athens..... Acts 17. 22–34.
Sept. 2. Paul at Corinth..... Acts 18. 1–11.
9. Paul at Ephesus..... Acts 19. 1–12.
16. Power of the Word..... Acts 19. 17–28.
23. Paul at Miletus..... Acts 20. 17–32.
30. Review, or Lesson Selected by the School.

Fourth Quarter.

Oct. 7. Paul at Cesarea..... Acts 21. 8–15.
14. Paul at Jerusalem..... Acts 21. 27–39.
21. Paul and the Bigoted Jews Acts 22. 17–30.
28. Paul before the Council. Acts 23. 1–11.
Nov. 4. Paul before Felix... Acts 24. 10–25.
11. Paul before Agrippa.... Acts 26. 6–20.
18. Almost Persuaded..... Acts 26. 21–29.
25. Paul in the Storm..... Acts 27. 14–26.
Dec. 2. The Deliverance..... Acts 27. 33–44.
9. Paul in Melita..... Acts 28. 1–10.
16. Paul at Rome..... Acts 28. 16–31.
23. Paul's Last Words..... 2 Tim. 4. 1–8.
30. Review, or Lesson Selected by the School.

Methodist Episcopal Church Calendar.

Annual Meeting of the Book Committee—Second Wednesday in February. Each section to have meetings at such times as it may elect.

Monthly meeting of Missionary Board—Third Tuesday in each month.

Annual meeting of General Missionary Committee, in month of November. Secretaries and Treasurers fix the date of meeting.

Quarterly Meeting of the Sunday-School Union—Fourth Wednesdays of March, June, September, and December.

Quarterly Meeting of the Tract Board—Second Wednesdays of March, June, Sept., and Dec.

Anniversaries of Sunday-School Union and Tract Society are fixed by the Boards of Managers.

Annual election of Officers of the Board of Church Extension—January of each year.

Annual Meeting of General Committee of Church Extension, November—Day to be fixed by Board.

Annual Meeting of the Board of Education—Time fixed by Board of Managers.

"Children's Day," (see Discipline 1876, p. 154,) second Sunday in June.

Annual Meeting of the Freedmen's Aid Society. The Board of Managers fix the date.

The next General Conference is to be held in Cincinnati, May 1, 1880.

The 111th Anniversary of the organization of the John-street Church—the first Methodist Church in America—will be observed on the last Sunday in October, 1877. The occasion will also be the 109th anniversary of the first Methodist Church Dedication.

General Religious Statistics.

PROTESTANTS IN FRANCE.—The present number of Protestants in France are estimated at 300,000. Last year $400,000 were spent in France by Bible, Sunday-school, and missionary societies.

LARGEST CHURCHES IN EUROPE.—St. Peter's at Rome will hold 50,000; Milan Cathedral, 37,000; St. Paul's, London, 35,600; St. Paul's, Rome, 32,000; St. Petronia, Bologna, 24,000; Florence Cathedral, 24,300; St. Sophia's, Constantinople, 23,000; St. John, Lateran, 22,900; Notre Dame, Paris, 21,000; Pisa Cathedral, 13,000; St. Stephen's, Vienna, 12,400; St. Dominic's, Bologna, 12,000; St. Peter's, Bologna, 11,500; Cathedral of Vienna, 11,000; St. Mark's, Venice, 7,000. Mr. Spurgeon's Tabernacle is said to hold 7,000.

GROWTH OF CHURCHES IN THE UNITED STATES.—In 1776 there were 1,043 Protestant churches and 1,443 ministers: now there are 91,760 churches and 58,060 ministers. Then the population was less than four millions; now it is nearly forty millions. Thus, while the population has multiplied by ten, churches have been multiplied by forty-seven. Then there was one church for every two thousand people, now one for every half thousand.

GEORGE MUELLER'S WORKS OF FAITH.—Within the past year he has established five additional day-schools, twenty-nine Sunday-schools, and six adult schools, supported by the funds he has received. A large number of Bibles and tracts were also distributed. His income for the year was £45,000, all of which came without request. In the forty-two years of his work, Mr. Mueller has received £710,000.

THE SCATTERED JEWS.—Jerusalem does not contain more than 8,000 or 9,000 Jews; there are more in North Africa than in Judea; there are scarcely any in Italy and Spain. In Great Britain they are in the proportion of one in one thousand; in France four in one thousand, owing to the large numbers in the German provinces; in Switzerland, 7,087 Jews in over 2,500,000 population; in Germany, including Alsace, Lorraine, and the Polish province, 512,160; in Austria, 1,376,000, or 3.8 per cent. of the whole population, nearly one third of them occupying Gallicia, of whose population there will be a majority before long at the present rate of increase; in Russia's 63,000,000 there are 1,829,100. In the old kingdom of Poland Jews are 13 per cent. of the population, and are over 35 per cent. in Warsaw.

RELIGIOUS STATISTICS.—Protestants, 89,000,000; Roman Catholics, 170,000,000; Greek Church, 76,000,000; Jews, 5,000,000; Mohammedans, 160,000,000; heathen, 788,000,000—total, 1,289,000,000.

YOUNG MEN'S CHRISTIAN ASSOCIATIONS.—The entire number in North America is over one thousand. From 821 reports were received by the Executive Committee, and submitted to the Toronto Convention. This is a greater number by 266 than ever before reported. The average membership is 110, and the average amount expended during the year by 416 Associations was $750. 304 reading-rooms, 247 libraries, 86 daily and 1,150 weekly meetings are maintained. In 216 Bible classes 7,000 persons are gathered each week to study God's word. 108 brethren are now acting as general secretaries and agents of the various Associations of the State and International Committees. In 60 Association buildings ($1,876,293) and 50 building funds ($249,123) a total clear property of $2,125,416 is held. The thousand Associations in North America, therefore, with a membership of 100,000, expended during the past year $430,000. Of this sum 1 per cent. was devoted to the general work carried on by the affiliated organizations, and the balance was necessary for the home or local work of the individual societies.

The Census of the United States for 1870 reports the value of property held by religious corporations, in round numbers, at $354,000,000. This is double the sum reported by the same high authority in 1860, and the figures in 1860 are twice those of 1850. The value of property held by the Methodist Episcopal Church in 1870 was $70,000,000. This, also, is twice the figure for 1860, and the same rate of increase is found during the preceding decade.

The American Board held its sixty-seventh annual meeting Oct. 3, 1876, at Hartford, Conn. The receipts for the year were: Ordinary donations, $346,118; to extinguish the debt, $40,468; centennial offering, $7,037; total, $393,620. The legacies were $64,891; other sources, $6,930. Entire income, $465,442. Expenses, $452,168 66. Last year's debt was $44,323. Present deficit, $31,050.

A Chapter of First Things.

THE first printed almanac was that of George von Purback, in 1460.

The first copper cent was coined in New Haven in 1787.

The first watches were made in Nuremberg in 1477.

The first omnibus was built in Paris in 1827. Omnibuses were introduced into New York in 1830.

The first college in the United States was founded in 1636.

The first compass was used in France in 1150, though the Chinese are said to have employed the loadstone earlier.

The first chimneys were introduced into Rome from Padua in 1368.

The first newspaper advertisement appeared in 1652.

The first air-pump was made in 1650.

The first algebra originated with Diophantus, in either the fourth or sixth century.

The first successful balloon ascent was made in 1783.

The first national bank in the United States was incorporated by Congress, Dec. 31, 1781.

The first attempt to manufacture pins in this country was made soon after the war of 1812.

The first printing-press in the United States was introduced in 1639.

Coaches were first used in England in 1569.

Gas was first used as an illuminating agent in 1792. Its first use in New York was in 1827.

The first glass factory in the United States of which we have definite knowledge was built in 1780.

Gold was first discovered in California in 1848.

The first use of a locomotive in this country was in 1829.

The first horse railroad was built in 1826–27.

The art of photography was simultaneously developed by Daguerre in France, and Talbot in England, in 1839.

The first daily newspaper appeared in 1702. The first newspaper in the United States was published at Boston, Sept. 25, 1690. The first religious newspaper, the "Boston Recorder," was established in 1815.

Organs are said to have been first introduced into churches by Pope Vitalianus, about A. D. 670.

The first steel pen was made in 1803.

The first machines for carding, roving, and spinning cotton, made in the United States, were manufactured in 1786.

Envelopes were first used in 1839.

The first complete sewing machine was patented by Elias Howe, Jun., in 1846.

The first iron steamship was built in 1830.

Ships were first "copper-bottomed" in 1783.

The first telegraph instrument was successfully operated by S. F. B. Morse, the inventor, in 1835, though its utility was not demonstrated to the world until 1844.

The first lucifer match was made in 1829.

The first steamboat plied on the Hudson in 1807.

The first society for the exclusive purpose of circulating the Bible was organized in 1804, under the name of the "British and Foreign Bible Society."

The entire Hebrew Bible was first printed in 1488.

The first society for the promotion of Christian knowledge was organized in 1698.

Kerosene was first used for lighting purposes in 1826.

The first Union flag was unfurled on the first of January, 1776, over the camp at Cambridge. It had thirteen stripes of red and white, and retained the English cross in one corner.

The first steam-engine on this continent was brought from England in 1753.

The first sawmaker's anvil was brought to America in 1819.

The first temperance society in this country was organized in Saratoga Co., N. Y., in March, 1808.

The first telescope was probably used in England in 1608.

Glass was early discovered. Glass beads are found on mummies over 3,000 years old. Glass windows were introduced into England in the eighth century.

Anæsthesia first discovered in 1844.

Temperance Illustrations.

NAME OF POWER.—A reformed and converted drunkard significantly said: "Every time I am tempted to drink I say 'Jesus,' and the tempter goes away." That name cannot devoutly move any lips opened to drink whisky.

A TEMPERANCE LECTURE.—"I shall told you how it vas. I put mine hand on mine head, and there vas von pig bain. Then I put mine hand on my pody and there vas anoder. Then I put my hand in mine pocket and there vas noting. So I jined mit der demperance. Now dere vas no more bain in my head. The bains in mine pody vas all gone avay. I put mine hand in mine pocket, and there vas twenty dollars. So I shall stay mit der demperance."

BETTER DAYS.—A blacksmith had in his possession, but under mortgage, a house and piece of land. Like many others he was at one time fond of the social glass, but was happily induced by a friend to join the temperance society. About three months after, he observed his wife one morning busily engaged in planting rose-bushes and fruit-trees. "Mary," said he, "I have owned this lot for five years, and yet I have never known you to care to improve it in this manner." "Indeed," replied the smiling wife, "I had no heart to do it until you gave up drink. I had often thought of it before, but I was persuaded that should I do it some stranger would pluck the roses and eat the fruit. Now, with God's blessing, this cot will be ours, and we and our children may expect to enjoy the produce. We shall pluck the roses and enjoy the fruit." And they did. Their cottage was known as the prettiest in the neighborhood.

A FABLE.—Here is a fable with a moral: While Noah was planting his vineyard, the devil comes to him and says: "What are you doing here, Noah?" "Planting a vineyard," says Noah. "What is the use of a vineyard?" says the devil. "Its fruit," says Noah, "whether fresh or dry, is sweet and good, and its wine gladdens the heart." The devil evidently came disguised as an angel of light, and he says to Noah, "Let us work it on shares." "Agreed," says Noah. Now what did the devil do? He brings a lamb, and a lion, and a hog, and a monkey, sacrifices them on the spot, and mingles their blood with the soil. Wherefore, if a man only eats the fruit of the vineyard he is mild and gentle as the lamb; if he drinks the wine he imagines himself a lion; if he drinks habitually, he becomes unmannerly and disgusting as a hog; if he gets drunk he jabbers, jumps, and is silly and nasty as a monkey.

EVERY FIGURE A SERMON.—The evil results of drinking intoxicating liquors may be summed up as follows:—

It is costing our people a yearly expenditure of over $1,500,000,000, all of which might be spent for far more useful purposes.

It is making yearly 530,000 confirmed drinkers.

It is sending yearly 150,000 persons to drunkards' graves, and reducing to want and beggary 100,000 children.

It is sending yearly to prisons 100,000 persons, and is causing a large proportion of loss of life and property on land and sea.

It is converting millions upon millions of bushels of grain which God has given us as food to preserve life into vile stuff that destroys life.

The above sum of money would pay off our national debt in two years, and leave a surplus sufficient to construct a ship canal, without locks, between the Atlantic and Pacific oceans, via the Atrato Truands route, and build all the proposed double track railroads and canals between the Atlantic seaboard and the Mississippi river, to cheapen the price of freight and passenger traffic, so much needed.

It would furnish to the starving poor 220,000,000 barrels of flour at seven dollars a barrel.

It would build 50,000 miles of railroad at $30,000 per mile.

It would send a Bible to every inhabitant of the globe.

It would build 150,000 dwellings or churches, at $10,000 each.

It would furnish 150,000,000 suits of clothing, at $100 each.

In a word, if intoxicating liquors were abolished entirely from our land, crimes, poverty, and misery would be greatly reduced, and our people, sober, industrious, and economical, would be the most happy, wealthy, and intelligent in the world.

The Union of States.

The original family who united July 4, 1776, to form a nation of one people, were:

Free States.		Slave States.	
1. New Hampshire.	5. New York.	8. Delaware.	11. North Carolina.
2. Massachusetts.	6. New Jersey.	9. Maryland.	12. South Carolina.
3. Rhode Island.	7. Pennsylvania.	10. Virginia.	13. Georgia.
3. Connecticut.			

The following States have been admitted in the years set opposite each name:—

14. Vermont (from New York)	1791
15. Kentucky (from Virginia)	1792
16. Tennessee (from North Carolina)	1796
17. Ohio (from Northwestern Territory)	1802
18. Louisiana (bought from France, 1803)	1812
19. Indiana (from Northwestern Territory)	1816
20. Mississippi (from Georgia)	1817
21. Illinois (from Northwestern Territory)	1818
22. Alabama (from Georgia)	1819
23. Maine (from Massachusetts)	1820
24. Missouri (from the Louisiana purchase)	1825
25. Arkansas (from the Louisiana purchase)	1833
26. Michigan (from Northwestern Territory)	1837
27. Florida (ceded by Spain, 1820)	1845
28. Texas (from Mexico) annexed	1845
29. Iowa (from Louisiana purchase)	1846
30. Wisconsin (from Northwestern Territory)	1848
31. California (conquered from Mexico)	1850
32. Minnesota (half from Northwestern Territory, half from Louisiana purchase)	1857
33. Oregon (from England by treaty)	1859
34. Kansas (from Louisiana purchase of 1803)	1861
35. West Virginia (from Virginia)	1863
36. Nevada (conquered from Mexico)	1864
37. Nebraska (from Louisiana purchase of 1803)	1867
38. Colorado (partly from Louisiana purchase, and part conquered from Mexico)	1876

Territories remaining to be organized into States:

1. New Mexico, organized	1850
2. Utah, organized	1850
3. Washington, organized	1853
4. Dakotah, organized	1816
5. Arizona, organized	1863
6. Idaho, organized	1863
7. Montana, organized	1864
8. Wyoming, organized	1868
9. Alaska, organized	1869
District of Columbia, seat of Government	1790-1

Occupations of Immigrants to United States during Year ending June 30, 1873.

	Males.	Females.	Total.
Professional occupations	2,182	218	2,400
Skilled occupations	23,015	1,185	24,200
Miscellaneous occupations	65,579	6,696	72,275
Occupations not stated	341	569	910
Without occupation	20,669	49,532	70,201
	111,786	58,200	169,986

Notes for the Farmer and Gardener.

COMPOST.—Potato tops and other refuse make fine manure for the garden. One load of this manure or compost is worth four loads of the ordinary long stuff drawn from the barnyard every spring.

TO BREAK HORSES PULLING AT THE HALTER.—Pass a long halter round the hitching-post (through ring or staple) and back between the fore legs, under the girth to the hind legs, and fasten above the knee joint. It is a sure cure.

TO MEASURE CORN IN BULK.—Multiply length, breadth, and average thickness (in inches) together, and divide by 3,888. The quotient will be the number of bushels.

DRAINS.—Every country house should have a drain leading from the kitchen sink to a tank in the barnyard or garden. Drains should lead from the cow and horse stables to this tank. By these means, saving all the house slops, urine, etc., nothing goes to waste. A pump should be attached to the tank, and the liquid pumped over sods.

TO MARK TOOLS.—Warm them slightly, and rub the steel with wax, or hard tallow, till a film gathers. Then write your name on the wax with a sharp point, cutting through to the steel. A little nitric acid poured on the marking will bite in the letters. Then wipe the acid and wax off with a hot, soft rag.

HOW TO MILK COWS.—Five per cent., and perhaps ten, can be added to the amount of milk obtained from the cows of this country if the following rules are inexorably followed: 1. Never hurry cows to and from pasture. 2. Milk as nearly at equal intervals as possible. Half-past five in the morning and six at night are very good hours. 3. Be especially tender to the cow at milking times. 4. When seated, draw the milk as rapidly as possible, being certain always to get all. 5. Never talk or think of any thing besides what you are doing when milking. 6. Offer some caress, and always a soothing word, when you approach a cow and when you leave her. The better she loves you the more free and complete will be her *abandon* as you sit by her side.

TOMATO LEAVES—SINGULAR PROPERTY.—"I planted a peach orchard," writes M. Siroy, of the Society of Horticulture, Valparaiso, "and the trees grew well and strongly. They had but just commenced to bud when they were invaded by the curculio, (*Pulgon,*) which insects were followed, as frequently happens, by ants. Having cut some tomatoes, the idea occurred to me that, by placing some leaves around the trunks and branches of the peach-trees, I might preserve them from the rays of the sun, which were very powerful. My surprise was great on the following day to find the trees entirely free from their enemies, except here and there a curled leaf prevented the tomato from exercising its influence. These leaves I carefully unrolled, placing upon them fresh ones from the tomato vine, with the result of banishing the last insect and enabling the trees to grow with luxuriance. Wishing to carry still further my experiment, I steeped in water some leaves of the tomato, and sprinkled with this infusion other plants, roses, and oranges. In two days these were also free from the innumerable insects which covered them, and I felt sure that had I used the same means with my melon patch I should have met with the same result. I therefore deem it a duty I owe to the Society of Horticulture to make known this singular property of tomato leaves, which I discovered by the merest accident.

EGGS—HOW INCREASED.—If an increase of eggs be desired in the poultry-yard, before large sums of money are expended in the purchase of everlasting layers, we would recommend the system of keeping no hens after their first, or, at the most, their second year. Early pullets give the increase, and the only wonder is that people persist as they do in keeping up a stock of old hens, which lay one day and stop three, instead of laying three days and stopping one. In some parts of England it is the invariable rule to keep the pullets only one year. Feeding will do a great deal (a surprising work, indeed) in the production of eggs, but not when the old hens are concerned. They may put on fat, but they cannot put down eggs. Their tale is told, their work is over. Nothing remains to be done with them but to give them a smell of the kitchen-fire, and the sooner they get that the better.

Health Notes.

REMEDY FOR POISON IVY.—Take a piece of fresh lime as large as a walnut, unslaked; dissolve it in a saucer in a small quantity of water; wash the hands in it; apply to the parts affected; in fact, wash the face and neck, etc.

INSECT BITES.—These, and even that of a rattlesnake, have passed harmless by stirring enough of common salt in the yolk of a good egg to make it sufficiently thin for a plaster, to be kept on the bitten parts.

NEURALGIA.—This and toothache are sometimes speedily relieved by applying to the wrist a quantity of bruised or grated horse-radish.

LOCKJAW.—Lockjaw frequently results from the most trifling accidents, such as running a rusty nail into the foot, or stepping on sharp instruments. Such wounds can be healed by a simple remedy. Smoke such wounds, or in fact any inflamed wounds, with burning wool or woolen cloth. Twenty minutes' application of smoke from wool will take inflammation out of the worst wounds.

COSTIVENESS.—Costive bowels have an agreeable remedy in the free use of tomatoes at meals, their seeds acting in the way of the seeds of white mustard or figs, by stimulating the coats of the bowels over which they pass, in their whole state, to increased action. A remedy of equal efficiency, in the same direction, is cracked wheat—that is, common white wheat grains, broken into two or three pieces, and then boiled until it is as soft as rice, and eaten mainly at two meals of the day, with butter or molasses.

GRAPES AND BILIOUSNESS.—Grapes are recommended as a cure for biliousness. This fruit, by its agreeable acidity, so acts on the system as to relieve it of its bile, and thus removes the cause of the symptoms enumerated, and that is "cure." The immediate cause of all the discomfort is a "confined" condition of the system; the seeds of the grapes acts as an irritant as they pass along the alimentary canal and cause it to "water," just as the eye "waters" if a hard substance touches it. This watering dissolves the more solid matters contained in the intestines, "washes" them out, and the man is well. The covering of the grapes should be chewed but not swallowed.

HEALTHFULNESS OF ONIONS.—The onion forms one of the common supports of life in Spain and Portugal. The dried onion contains from twenty-five to thirty per cent. of gluten, and ranks, in this respect, with the nutritious pea and the grains.

HEALTH APHORISMS.—1. Rise early, and take a good walk or ride before breakfast. 2. Do not eat breakfast immediately on rising. The stomach is not in a condition to receive food. 3. There is a great virtue in fasting early in the day, and at evening. 4. Let the breakfast and supper be light—reserving strong food, as meat, etc., for the middle of the day. 5. A good rule would be: rise at seven—breakfast at eight or nine—dinner at one—a light tea at six. 6. Eat slowly, masticate thoroughly, and drink in sips. Very little fluid during meals. Liquids should be taken an hour after meals; then they assist digestion.

HOW TO BREATHE.—The mouth has its own functions to perform in connection with eating, drinking, and speaking; and the nostrils have theirs, namely, smelling and *breathing*. In summer-time the error in respiring through the mouth is not so evident as in the winter season, when it is undoubtedly fraught with danger to the person who commits this mistake. If any one breathes through the mucous membrane lining, the various chambers of the nose become warm to the temperature of the body before reaching the lungs; but if he takes in air between the lips and through the mouth, the cold air comes in contact with the delicate lining membrane of the throat and lungs, and gives rise to a local chill, frequently ending in inflammation. Many persons, without knowing the reason why they are benefited, wear respirators over the mouth in winter, if they happen to go out of doors. By doing this they diminish the amount of air which enters between the lips, and virtually compel themselves to breathe through the nostrils. But they could attain just the same results by keeping the lips closed—a habit which is easily acquired, and conduces to the proper and natural way of breathing. We believe that if people would only adopt this simple habit—in other words, if they would take for their rule in breathing, "Shut your mouth"—there would be an intense diminution in the two classes of affections, namely, those of the lungs and throat, which count many thousands of victims in this country in the course of a single year.

Convenient Home Remedies.

For a Scald from Steam or Water.—Moisten the spot with water or milk, and apply fine salt, as much as will adhere. This will usually prevent a blister.

Hair Wash.—Try half an ounce of borax to a quart of water for a hair wash; apply very gently with a sponge on alternate days; apply a little glycerine dissolved in water.

Instantaneous Emetic.—Two teaspoonfuls mustard mixed in warm water. For a child with croup it relieves at once. A tablespoonful of lard warmed and given is said to be an instantaneous emetic.

Cure for Gravel.—Sweeten your tea with equal parts of honey and sugar. Never has been known to fail. If possible secure honey made from clover blossoms instead of wild flowers and buckwheat.

Lead Poisoning.—According to M. Melsens a small dose of iodide of potassium taken daily acts as a preventive to the effects of lead and mercurial poisoning often witnessed in those useful but dangerous metals.

Tincture of Capsicum.—Put on the fingers will cure a child from biting the nails. A friend of mine cured her child effectually of this bad habit by promising her a dollar when her nails should be long enough to cut.

Bruises.—To prevent the skin discoloring after a bruise, take a little dry starch or arrow-root, merely moisten it with cold water, and place it on the injured part. This is best done immediately, so as to prevent the action of the air upon the skin. Invaluable for black eyes.

A Simple Disinfectant.—Roasted coffee is one of the most powerful means, not only of rendering animal and vegetable effluvia innocuous, but of actually destroying them. In proof of this the statement is made that a room in which meat in an advanced degree of decomposition had been kept for some time, was instantly deprived of all smell on an open coffee roaster being carried through it containing one pound of newly roasted coffee; and in another room the effluvium occasioned by the clearing out of a cesspool, so that sulphureted hydrogen and ammonia could be clearly detected, was entirely removed within half a minute on the employment of three ounces of fresh coffee. The best mode is to dry the raw bean, pound it in a mortar, and then roast the powder on a moderately heated iron plate until it assumes a dark brown hue. In this state it is ready for use.

Fainting.—Lay patient flat on back, with head lower than body; loose dress; apply smelling salts to nostrils, or, if they are not at hand, burn a piece of rag under nose; dash cold water in the face; give fresh air.

Earache.—Apply a small flannel bag with hot salt; or foment the ear with flannel wrung out of hot camomile and poppy-head decoction; or apply a hot roasted onion in muslin.

Boils.—Cover with a Burgundy-pitch plaster, renewing it daily. So soon as the boil breaks squeeze out the contents, including core, and renew the plaster as before. The old-fashioned thorough application of a mixture of common soap and brown sugar is also good.

Sun-stroke.—Send for the physician. In the meantime the patient should be placed in a recumbent position in the coolest possible place, with a free current of air. The clothes should be removed, and cold water applied to the whole surface; or, if the symptoms be urgent, the clothes should immediately be saturated with cold water without waiting to remove them. If the respiratory movements be failing and feeble, the cold douche is a powerful exciter; but if the breathing be rapid and laborious, it is better to envelop the body in a wet sheet, and to quicken evaporation and cooling by a fan or a pair of bellows. If the patient can swallow, let him drink iced water freely. Whether he can drink or not, iced water may from time to time be injected.

Scalds or Burns.—Instantly and liberally apply dry flour, and keep it in its place by a bandage. Another excellent application is "prepared lard," that is, lard without salt. Druggists keep it. If only salt lard is at hand, wash out the salt in cold water. Do not apply cold water, salt, spirits, or vinegar. If the burn be in the leg or foot, slit the stocking so as to avoid breaking the skin. Do not wash the wound, and do not dress it oftener than on alternate days. Do not rub or roughly handle the affected parts. If there be much discharge, do not wipe, but gently sop with soft cloth. "No ulcer should be often dressed, as by removing the excrement we are likely to rub off also the new flesh."

Notes for the Housekeeper.

REMOVING STAINS FROM CARPET.—Ink may be taken out of a carpet by a little dissolved oxalic acid, or salt of sorrel, rubbed on with flannel, and afterward washed off with cold water; then rub on some hartshorn.

REMOVING GREASE SPOTS.—An excellent recipe for removing paint or grease spots from garments may be had by mixing four tablespoonfuls of alcohol with a tablespoonful of salt. Shake the whole well together, and apply with a sponge or brush.

LEMON-JUICE STAINS.—Touch the stains with a little aqua ammonia, (spirits hartshorn,) applied by means of a sponge or cloth, well rubbed in; they will instantly disappear.

USING LEMON-SALTS.—Try the method recommended for lemon-juice stains. The salts, being made from oxalic acid and cream-tartar, both acids are counteracted by the alkali, ammonia.

SPIRITS OF HARTSHORN will remove lemon-juice stains from dark cloth; also restore color to black goods.

ANOTHER METHOD.—If C. H. W., who has ruined her camel's-hair suit by using salts of lemon, will apply a little chloric ether on the spot, followed, if not entirely removed when dry, by a little chloroform, she may save her dress from the rag-bag.

STAINED KID GLOVES.—The white spots on kid gloves from damp may generally be removed by wrapping them up with small lumps of gum camphor.

TO CLEAN BLACK CASHMERE.—Wash in hot suds, with a little borax in the water; rinse in bluing-water—very blue—and iron while damp. It will look equal to new.

IRON-MOLD.—Salt of lemon is the best material for removing stains of iron-mold, but it should be used very sparingly, as any excess will destroy the fabric.

TO CLEAN KID GLOVES.—Get one pint of naphtha and it will clean six pairs; wash as if you were washing a rag, and rinse in clean naphtha; when rinsed put on the hands; they dry in a few minutes; lay them in your glove-box with a little perfume.

TO CLEAN LIGHT KID GLOVES.—Put gloves on the hand and rub with a flannel cloth dipped in gasoline.

STAINS IN MATTING.—To remove iron stains from straw-matting, make a mixture of oxalic acid, two drachms; alum, two drachms; iodine of iron, one drachm; water, four ounces. Dissolve. Dampen a piece of canton flannel, and apply to the part you wish to cleanse, and afterward wash well with water.

TO RESTORE VELVET.—Where velvet has been crushed, hold the wrong side over a basin of quite boiling water, and the pile will gradually rise. Do not lose patience, for it takes a considerable time, but the result is marvelous.

TO RENOVATE BLACK SILK.—Two ounces soap bark (to be had at any drug store) soaked over night in one quart of rain-water. Pour off the water from the bark in the morning, and sponge the silk thoroughly on both sides, and hang smoothly on a clothes-horse to dry. Do not iron. Old and soiled black silks have been made to look somewhere approaching to newness and more than respectable by this process.

TO REMOVE STAINS OF INK, FRUIT, WINE, MILDEW, ETC.—First wash the stain off as much as possible with clear cold water, then apply the escalonnia, which consists of one tablespoonful lemon-juice, one tablespoonful pure cream-tartar, one teaspoonful of oxalic acid, one half-pint rain-water. Wipe off with clear water. Any article that cannot be washed after using the mixture, a tablespoonful of the juice of white currants is better than lemon-juice when procurable. This may be used with safety upon most delicate fabrics, as it will not injure the color or material. Shake up when using it.

GREASE-SPOTS.—We can remove grease-spots from carpet with potter's-clay, wet with cold water to a thick paste, and spread on the carpet with several thicknesses of heavy brown paper tacked over it; to be left a week and then brushed off. If not entirely removed, apply again. It never fails when properly used.

TO CLEAN CARPETS.—Sometimes flour (dry) rubbed in and repeated will be efficacious; but I have never found fuller's earth to fail. Mix it in a paste and spread it on (with a knife) wet; cover it over with a cloth or paper, pinned over to prevent tracking it around; leave on a day or two; if not then removed renew the supply, and scrape carefully off when the grease is removed.

To Clean Paint.—Take a small quantity of whiting on a damp flannel, rub slightly over the surface, and you will be surprised at its effects.

To Cleanse Woodwork.—Save the tea-leaves for a few days, then steep them in a tin pail or pan for half an hour, strain through a sieve, and use the tea to wash all varnished paint. It requires very little "elbow polish," as the tea acts as a strong detergent, cleansing the paint from all impurities, and making the varnish equal to new. It cleans window-sashes and oil-cloths; indeed, any varnished surface is improved by its application. It washes window-panes and mirrors much better than water, and is excellent for cleaning black walnut picture or looking-glass frames. It will not do to wash unvarnished paint with it.

Moths in Carpets.—To destroy them take a wet sheet or other cloth, lay it upon the carpet, and then go over the wet cloth with a hot flat iron; the steam thus produced will penetrate the carpet, and not only destroy living moths, but cook their eggs, and prevent them from hatching. It is cheap and easy of application, and will prove effective.

Milk Instead of Soap.—In washing dishes have your water quite hot, and add a very little milk to it. This softens the water, gives the dishes a fine gloss, and preserves the hands; it removes the grease, even that from beef, and yet no grease is found floating on the water, as when soap is used. The stone vessels I always set on the stove with a little water in them when the victuals are taken from them; thus they are hot when I am ready to wash them, and the grease is easily removed. I find that my tinware keeps longer when cleaned in this way than by using soap or scouring.

To Purify Water.—A lump of alum attached to a string and swung around a few times slowly, through a pitcher of water, will cause the sediment to fall to the bottom in a few minutes. The neutral sulphate of alumine will make lime-water perfectly pure, destroying at the same time all organic compounds. Almost all water has lime in it.

A Home-made Carpet.—Have any of you a spare bed-chamber, seldom used, which you would like to carpet at little expense? Go to the paper-hanger's store, and select a paper looking as much like a carpet as you can find. Having taken it home, first paper the floor of your bed-room with brown paper or newspaper. Then over this or these put down your wall-paper. A good way to do this will be to put a good coat of paste upon the width of the roll of paper and the length of the room, and then lay down, unrolling and smoothing at the same time. When the floor is all covered, then size and varnish. Only dark glue and common furniture varnish may be used, and the floor will look all the better for the darkening these will give it. When it is dry, put down a few rugs by the bedside and before the toilet-table, and you have as pretty a carpet as you could wish—a carpet, too, that will last for years, if not subject to constant wear, and at a trifling expense.

Starching Linen.—Make a liquid paste with good fine wheat-starch and cold water, and then stir in boiling water until a stiff paste is formed, and immediately add white wax, or stearin, say about one ounce of wax to a pound of starch, (the exact proportions, however, in any case can only be determined by experience.) If it is desirable that the linen should be very stiff, powdered gum arabic may be added to the cold water with which the starch is mixed. The strained starch should be thoroughly rubbed into the articles after they have been well wrung out; after which they should be placed between dry cloths and passed through the mangle, and then rubbed on an iron board in one direction with a soft rag, to distribute any lumps of starch. Collars, etc., should be ironed dry with a hot iron and considerable pressure. The sticking of the iron may be prevented by drawing it while hot over wax, and wiping it with a rag dipped in salt.

Miscellaneous Notes for The Laundry.—Always mend clothes before washing them. Alum or vinegar is good to set the colors of red, green, or yellow. A hot shovel held over varnished furniture will take out white spots. Ribbons of any kind should be washed in cold soap-suds and not rinsed. If your flat-irons are rough, rub them with fine salt and it will make them smooth. Scotch snuff put on the holes where crickets come out will destroy them.

To Make Irons Smooth.—Tie a small piece of beeswax in a white cotton cloth; when ironing starched clothes rub the wax over the iron once or twice; then rub the iron on a clean white cloth. The beeswax imparts a gloss, and prevents the starch from rolling.

Notes for the Kitchen.

WHITE POTATO PIE.—One pint of mashed potatoes, seasoned with salt as for table, three eggs, one pint sugar, half cup butter, half tea-cup cream, rind and juice of one lemon.

ORANGE SOUFFLED.—Slice five oranges, and pour over them a cold custard made of one pint of milk, the yolks of five eggs, sweetened to taste; beat the whites of eggs to a froth, and brown carefully.

BEAUTIFUL CAKE.—Three cups of sugar, two of butter, six of flour, one of sour milk, (or sweet,) with a little cream, five eggs, nutmeg, and a little fruit of any kind, one tea-spoonful of soda, two of cream of tartar; two loaves.

NEWPORT OR LUNCH CAKE.—One quart sifted flour, two tea-spoonfuls of cream of tartar mixed through it; one half cup of sugar, two eggs, two table-spoonfuls of lard, one cup of sweet milk; lastly, dissolve one tea-spoonful of soda in a little hot water; mix and bake in a hot oven from twenty to twenty-five minutes.

VEAL LOAF.—Three pounds of uncooked veal, quarter of a pound of pork; chop these fine; add two eggs, one cup pounded crackers, one tea-spoonful of salt, two of pepper; sage and summer-savory to suit the taste; press hard in a pudding-dish, and bake one and a half hours; cut in thin slices when cold.

CHICKEN SALAD.—Boil and mash fine a white potato, add the yolks of two cold hard-boiled eggs. While the potato is warm beat all smoothly together; add melted butter or oil-prepared mustard; salt and vinegar to taste. The potato increases the quantity of dressing, and cannot be distinguished from eggs.

POTATO CROQUETTS.—Season cold mashed potatoes with pepper, salt, and nutmeg; beat to a cream, with a table-spoonful of melted butter to every cupful of potato; add two or three beaten eggs and some minced parsley; roll into small balls; dip in beaten egg, then in bread crumbs, and fry in hot lard.

NICE DESSERT FOR CHILDREN.—Stir unsifted graham flour into a kettle of water that is boiling, and salted to taste; it should be stirred slowly, so as to give it time to cook thoroughly until quite thick; for sauce use sweetened cream.

RICE WAFFLES.—One gill of rice, three gills of flour, one ounce of butter, three eggs, a little salt; boil the rice until tender, add the butter, flour, salt, and yolks of the eggs, (previously beaten light,) after which the mixture must be beaten very hard. Have the whites of the eggs very light, stir in gently; then ready for baking. Butter; serve on heated plates.

SNOW PUDDING.—Three table-spoonfuls of gelatine dissolved in a very small quantity of water; then add a quart of boiling water, cup of sugar, juice of three lemons, rind of one. Let it get quite cool, then beat three eggs to a stiff froth, and stir in well with the gelatine; put in molds and freeze.

A RECEIPT FOR CARAMELS.—Two cups molasses, one cup grated chocolate, one cup milk, two tea-spoonfuls vanilla extract, one table-spoonful butter. Boil about twenty-five minutes, then set to cool in greased pans. When half cool mark with a knife.

COLD MEAT AND HAM CROQUETTS.—Take cold fowl or cold fresh meat of any kind, with a few slices of cold ham, fat and lean; chop together until very fine; add half as much stale bread grated, salt, pepper, grated nutmeg, a tea-spoonful of made mustard, one table-spoonful of catsup, a small lump of butter. Knead all well together, make into small flat cakes, (the yoke of an egg can be used to bind the ingredients, but it is not necessary.) Brush with the yolk of a beaten egg on both sides; cover thickly with grated bread crumbs; fry in a little lard or butter a light brown.

POTTED CHICKEN.—Boil the chicken in as little water as possible till very tender and well done; season while boiling to suit the taste; then, while hot, separate the white meat from the dark, and chop both very fine; place the white part in a dish, in any design wanted—as a cross; fill up with the dark meat; pour over it enough of the liquid left in the kettle to thoroughly moisten it; then place a small board over it, and press with heavy weights; after a few hours turn it out on a platter, and you will have a dish for the table that will be not only delicious, but an ornament.

FISH PIE.—Form a thick smooth batter of a quart of milk and ■ pound of flour, to which add two eschalots, with a bay leaf, a bunch of parsley, and a sprig of thyme, tied together, with a little salt, white pepper, and grated nutmeg. Stir constantly, and boil the batter over a sharp fire until it becomes a thick paste; then take it off and stir in a half pound of melted butter and the beaten yolks of two eggs. Pass it through a tammy, and pour some into the bottom of a dish, over which place a layer of the boned and skinned cold cod; then sauce and again fish in alternate layers, finishing with sauce. Strew lightly over the whole grated crumbs and grated cheese, bake for twenty minutes in a temperate oven, brown with a salamander, and serve in a baking dish.

PINE-APPLE SHORT-CAKE.—A couple of hours before bringing the cake on the table take a very ripe, finely flavored pine-apple, peel it, cut it as thin as wafers, and sprinkle sugar over it liberally; then cover it close. For the short-cake take sufficient flour for one pie-dish, of butter the size of a small egg, a table-spoonful or two of sugar, the yolk of an egg, two tea-spoonfuls of baking powder, a very little salt, and milk enough to make a very soft dough. Do not knead the dough, but just barely mix it, and press it into the pie-plate. The baking powder and butter, sugar, and salt should be rubbed well through the flour, and the other ingredients then quickly added. When time to serve split the cake, spread the prepared pine-apple between the layers, and serve with nothing but sugar and sweet cream. Do not butter the cake.

BOSTON CREAM PIE.—Cream part: One pint of new milk, two eggs, three table-spoonfuls of sifted flour, five table-spoonfuls of sugar. Put two thirds of the milk on to boil, and stir the sugar and flour in what is left. When the rest boils put in the whole and stir until it cooks thoroughly. When cool flavor with vanilla or lemon. Crust part: Three eggs, beaten separately, one cup of granulated sugar, one and a half cups of sifted flour, one tea-spoonful of baking powder. Divide in half; put in two pie tins, and bake in a quick oven to a straw color. When taken out split in halves, and spread the cream between.

ROQUET PICKLES.—One gallon of chopped cabbage, two quarts of green chopped tomatoes, six onions sliced thin, half an ounce of ground pepper, half an ounce of whole allspice, half an ounce of celery seed, half a gallon of vinegar, fourth of an ounce of whole cloves, one fourth cup of white mustard-seed, one half gill of salt, one half pound of brown sugar.

GINGER SNAPS.—Butter and sugar one cup each; rub together; add boiling molasses one pint; saleratus, half a tea-spoonful; ginger, one table-spoonful. Other spices to taste. Flour enough to make it stiff. Let stand until cold; roll thin, cut out and bake quickly. Then spread them in a colander or sieve, and stand for awhile in a warm place, to make them crisp.

ANOTHER.—Flour, two pounds; butter, half a pound; sugar, quarter of a pound; ginger, one table-spoonful; cinnamon, one tea-spoonful; soda, half a tea-spoonful; molasses, a sufficient quantity. Rub the butter with the sugar and other ingredients, and mix with as much molasses as will make a stiff dough; knead well, roll into very thin sheets, cut with a round cutter, place on slightly buttered pans, and bake.

DELICATE APPLE PUDDING.—Scald or steam, and then pound in a marble mortar, or grate, as many sour apples as will fill your pudding-dish about three inches deep. Stir to the apple the grated rind of one lemon or orange, and sweeten to your taste before putting it in your dish. Mix half a pint of milk with the same quantity of cream, and the beaten yolk of one egg. Scald these together, stirring all the time. Do not let it boil. Sweeten; take from the fire and set aside till cold, then pour over the apple. Finish by spreading over the top nicely whipped cream or frosting. One or two nice oranges thinly sliced, seeds removed, cut in small pieces, and mixed with the apple, is even nicer than the grated rind of either lemon or orange.

BORAX USED IN WASHING.—Quarter of a pound of refined borax to five gallons of water; powder the borax; dissolve it in boiling water in the above preparation, and use. It is an excellent bleacher, and may be used for the most delicate laces even; it also saves soap. A little pipe-clay, dissolved in the hot water, cleans very dirty linen with half the soap required without it.

General Statistical Facts.

THE POPULATION OF THE EARTH.—Europe, 302,973,000; Asia, 744,486,000; Africa, 150,586,000; America, 84,392,000; Australia and Polynesia, 4,563,000; total, 1,288,000,000.

AREAS OF DIFFERENT COUNTRIES.—The Russian Empire has by far the largest area on the globe, 8,404,767 square miles. The Chinese Empire has 3,924,037 square miles, and the United States 3,603,844. The Dominion of Canada has 3,483,952 square miles, and Brazil 3,275,326. Belgium is the smallest country, having an area of only 11,372 square miles; Denmark has 14,553, Switzerland 15,233, and Greece 19,941.

FOREIGN POPULATIONS.—The population of China is estimated at 425,213,152. British India is next, but at a long remove, with 190,563,048. Next is the Russian Empire, with 82,172,022, and next to Russia comes Germany, with 41,009,399, and the United States with 38,558,371. France has 36,102,921, Austria 35,904,435, Turkey 35,350,000, and Great Britain 31,817,108. The smallest country in point of population is Uruguay, with 450,000 inhabitants, and the next is Greece, with 1,457,894.

DENSITY OF POPULATION.—The number of inhabitants per square mile in some of the principal nations of the world is as follows: Austria-Hungary, 158; Belgium, 460; Brazil, 3; British India, 210; Chinese Empire, 110; Dominion of Canada. 1; Denmark, 111; Egypt, 19; France, 150; Great Britain and Ireland, 265; Germany, 193; Italy, 237; Japan, 211; Russian Empire, 11; Spain, 90; Switzerland, 175; Turkey, 20; United States, 12.

EXPLORATIONS OF PALESTINE.—Within five years 4,600 square miles of Palestine have been measured; the position of three fourths of the biblical towns have been set at rest; and the true sites of the cave of Adullam and the ford of baptism of the Jordan have been ascertained.

EXPOSITION FIGURES.—The Centennial Exposition grounds at Philadelphia embraced 236 acres; the Main Building covered 20 acres, and the Exposition Buildings 75 acres. There have been six International Expositions presenting the following figures:—

London	1851	20 Acres	Cost $1,464,000	Visitors, 6,170,000.
Paris	1855	30 Acres	Cost $1,000,000	Visitors, 4,533,464.
London	1862	24 Acres	Cost $2,300,000	Visitors, 6,211,103.
Paris	1867	40 Acres	Cost $4,596,763	Visitors, 9,300,000.
Vienna	1873	50 Acres	Cost $9,850,000	Visitors, 7.254.867.
Philadelphia	1876	75 Acres	Cost $8,500,000	Visitors.

The next International Exposition is to be held in Paris.

PRODUCTIONS OF THE UNITED STATES IN 1870.

	Bushels.		Pounds, etc.
Indian Corn	760,944,549	Wool, lbs	100,102,387
Winter Wheat	175,195,893	Hay, tons	27,316,048
Spring Wheat	112,549,733	Tobacco, lbs	262,735,341
Oats	282,107,157	Rice, lbs	73,635,021
Potatoes	143,337,473	Cotton, bales	3,011,996
Sweet Potatoes	21,709,824	Wine, galls	3,092,330
Barley	29,761,305	Horses, No	8,690,219
Rye	16,918,795	Cattle, "	28,074,582
Buckwheat	9,821,721	Cows, "	8,935,332
Peas, Beans	5,746,027	Sheep, "	28,477,951
Butter, lbs	514,092,683	Swine, "	25,134,569
Cheese, lbs	53,492,153	Mules and Asses	1,125,415

SALARIES OF EUROPEAN MONARCHS.—Alexander II., $9,152,000, or $25,000 a day; Abdul Aziz, $9,000,000, or $18,000 a day; Francis Joseph, $4,000,000, or $10,050 a day; Frederick William II., $3,000,000, or $8,200 a day; Victor Emmanuel, $2,400,000, or $6,840 a day; Victoria, $2,200,000, or $6,270 a day; Leopold, $600,000, or $1,643 a day. In addition to this salary, each of these individuals is furnished with a dozen or more first-class houses to live in without any charge for rent.

EUROPEAN NATIONAL DEBTS.—According to the latest returns the liability is as follows in round figures: Great Britain, £765,000,000; Austria-Hungary, £362,000,000; Germany, £46,000,000; France, £930,000,000; Italy, £356,000,000; Russia, £380,000,000. There is thus in the six countries named a total debt of about twenty-eight hundred millions sterling.

UNITED STATES.—The 38 States and the various Territories embrace a total area of 3,603,884 square miles, or 2,306,485,760 acres. Personal and real property in 1870 rated at $30,068,518,507. Population in 1870, 38,558,371. In 1790 the population was 3,929,214.

COMPARATIVE IMMIGRATION.—There has been a gradual decline in immigration to this country since 1873. The following figures show its volume for the last five years:—

Years.	Males.	Females.	Totals.
1872	240,170	164,686	404,806
1873	275,792	184,114	459,803
1874	189,225	124,114	313,339
1875	139,950	87,548	227,498
1876	111,786	58,200	169,986

THE WHEAT WE USE.—The annual consumption of wheat in the United States is five bushels per head, while England, since 1865, takes of our wheat one peck per head of her population. In 1864 she took from Turkey 6,843,200 bushels, and from the United States only 549,391 bushels. She thus bought from Turkey about twelve and a half times as much wheat as from us.

RATE OF INCREASE OF WHITE POPULATION OF THE UNITED STATES BEFORE THE PERIOD OF FOREIGN IMMIGRATION.

Date.	Period.	Rate of Increase per cent.
1775–1790	15 years.	38
1790–1800	10 "	36
1800–1810	10 "	36
1810–1820	10 "	34
1820–1830	10 "	34

RATE OF INCREASE OF WHITE POPULATION OF THE UNITED STATES SINCE THE PERIOD OF FOREIGN IMMIGRATION.

Date.	Period.	Rate of Increase per cent.
1830–1840	10 years.	35
1840–1850	10 "	38
1850–1860	10 "	38
1860–1870	10 "	25

RATE OF INCREASE OF NEGRO POPULATION OF THE UNITED STATES SINCE THE STOPPAGE OF THE SLAVE TRADE.

Date.	Period.	Rate of Increase per cent.
1810–1820	10 years.	29
1820–1830	10 "	32
1830–1840	10 "	23
1840–1850	10 "	27
1850–1860	10 "	22
1860–1870	10 "	10

New York City Statistics.

Population in 1875, per State census, 1,046,037.

Resident families, 185,789; dwellings, 64,044. Tenement houses, (containing three or more families,) over 20,000, with a population of over 500,000.

Marriages in one year estimated at 20,000; births, about 35,000; deaths, 28,727.

Valuation of city property, $1,154,029,176; taxes per year, $32,000,000.

Cost of public schools, $4,000,000 per year; of police, $4,000,000.

Seventeen thousand emigrants per month, or upward of 200,000 per year, land at Castle Garden. Last year the number was 130,420.

There are 429 churches, chapels, and missions of all kinds, with accommodations for 375,000 persons. There are 396 Protestant places of worship, with accommodations for 275,000 persons.

There are 278 regularly incorporated Protestant Churches, with an average membership of 300, which would give a total of 80,000 communicants.

There are 418 Sabbath-schools of all denominations, with an attendance of 115,826 pupils.

There are 356 Protestant Sabbath-schools, with an attendance of 88,237 pupils.

The number of males between the ages of 15 and 30 years is 122,081. The number of females between the ages of 15 and 30 years is 150,467. Probably 30,000 of the latter are servants.

The number of children in the city between the ages of 5 and 15 is 197,363. The number 5 to 18 years of age is 250,353.

Official statements place the number of licensed and unlicensed drinking saloons at 8,403. The money spent in these drinking places for liquor is variously estimated, but may be set down at $60,000,000 a year.

The latest police report states that there are 525 houses of prostitution, 99 houses of assignation, 33 saloons where waiter-girls attend, and 2,070 public prostitutes.

Total number of arrests by the Police Department for the year 1875, 84,399, of which 61,470 were for intoxication and disorderly conduct.

Arrests for crimes of violence in 1875, 7,860.

Commitments to the city prison in 1875, 54,655.

Of the whole number committed to the city prisons during the year, 41,514 were of intemperate habits.

Lodgings furnished at police stations in 1875, 185,124.

Lost children taken care of by the police in 1875, 5,879.

Out-door poor relieved in 1875, 22,782.

There are over 315 religious and charitable societies.

The organized local charitable societies and institutions receive and disburse annually $2,500,000.

Total of sittings in all churches, 375,000; total sittings required, 500,000; deficiency, 125,000.

Sittings in Protestant churches, 275,000; sittings required for Protestants, 300,000: defi-

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☞ See full page announcement, page 64. ☜

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It won't cost much for you to give Dobbins' Soap *a trial*, and surely, where so many thousands of women are praising it so highly, it *must* have merit. Think what hard labor it has always been to do a washing, and you will acknowledge that it is your *duty* to try *any thing* that may possibly lessen its labor and fatigue. Dobbins' Electric Soap will *surely* do it.—*Electric Messenger.*

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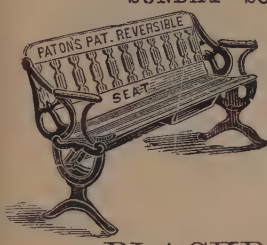

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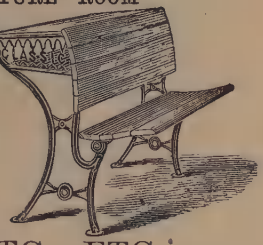

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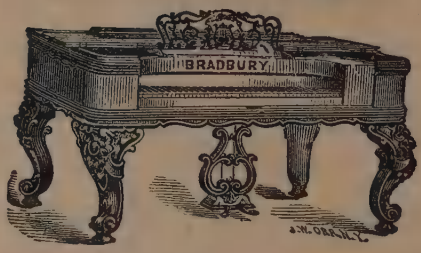

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